

PRICE LIST

MT-0622



HSS Toolbits

HSS Drills

HSS Endmills

HSS Reamers

HSS Core Drills

HSS & TCT Annular Cutters

HSS Taps

Carbide Tipped Tools

Tungsten Carbide Rotary Burrs

Solid Carbide Drills

Solid Carbide End Mills



Terms & Conditions

1. All Govt. taxes and levies are extra.
2. Delivery F.O.R Destination
3. This price list is effective from 01.06.2022 and super ceeds our previous Price list, Prices are subject to revision without any notice.
4. For unlisted intermediate sizes, please contact the respective sales team.
5. We also manufacture special products as per your requirements.
6. All MTO items required in minimum order value of Rs.20,000/- net or MOQ as per size whichever is higher.
7. If coating (TiN, TiCN, TiAlN) required while ordering will be charged extra if not included in price list. Minimum Order Value should be Rs.20,000 in each size or minimum order qty. as mentioned.

Jobber, Stub &	:	All sizes upto Dia 13.00mm to be ordered
Long Series Drills	:	In multiple of 10 Nos.
Centre Drills	:	Upto 1/2" (12.50 mm) to be ordered in multiple of 100 Nos.
ToolBits	:	Upto 1/2" (12.50 mm) to be ordered in multiple of 10Nos.
Parallel Shank Endmills :		Upto 1/2" (12.50 mm) to be ordered in multiple of 10Nos

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HSS TOOLBIT BLANKS

NOMINAL SIZE			GRADES						PKT. QTY.
MM	INCH	EQUIVALENT MM	ZEDD SQ. Price Each Rs.	S100 M35 SQ./RD Price Each Rs.	S200 M42 SQ./RD Price Each Rs.	S400 T42 SQ./RD Price Each Rs.	S400E M35 SQ./RD Price Each Rs.	S500 T42 SQ./RD Price Each Rs.	
-	3/32 x 2.1/2	2.38 x 63.50	125	277	389	410	326	436	10
-	3/32 x 3	2.38 x 76.20	146	447	626	656	525	697	10
3 x 75	1/8 x 3	3.18 x 76.20	146	306	431	455	358	474	10
3 x 100	1/8 x 4	3.18 x 101.60	192	552	794	833	655	866	10
4 x 75	5/32 x 3	3.97 x 76.20	146	310	442	464	366	475	10
4 x 100	5/32 x 4	3.97 x 101.60	196	480	687	721	571	740	10
5 x 75	3/16 x 3	4.76 x 76.20	125	245	321	337	287	348	10
5 x 100	3/16 x 4	4.76 x 101.60	165	361	469	493	426	516	10
5 x 150	3/16 x 6	4.76 x 152.40	255	652	1,000	1,056	764	1,057	10
6 x 75	1/4 x 3	6.35 x 76.20	143	310	431	455	366	475	10
6 x 100	1/4 x 4	6.35 x 101.60	168	421	572	604	493	628	10
6 x 150	1/4 x 6	6.35 x 152.40	242	689	936	987	812	1,024	10
6 x 200	1/4 x 8	6.35 x 203.20	345	1,144	1,584	1,667	1,341	1,754	10
8 x 75	5/16 x 3	7.94 x 76.20	159	407	553	586	480	623	10
8 x 100	5/16 x 4	7.94 x 101.60	206	560	760	797	659	851	10
8 x 150	5/16 x 6	7.94 x 152.40	340	894	1,221	1,284	1,057	1,362	10
8 x 200	5/16 x 8	7.94 x 203.20	432	1,273	1,726	1,820	1,502	1,941	10
-	3/8 x 3	9.53 x 76.20	199	474	656	696	554	738	10
-	3/8 x 4	9.53 x 101.60	242	633	868	915	747	993	10
-	3/8 x 6	9.53 x 152.40	376	999	1,398	1,469	1,180	1,569	10
-	3/8 x 8	9.53 x 203.20	510	1,422	1,982	2,089	1,669	2,225	10
-	3/8 x 10	9.53 x 254.00	657	1,885	2,625	2,763	2,215	2,947	10
10 x 75	-	-	221	516	717	753	606	806	10
10 x 100	-	-	262	689	961	1,011	810	1,079	10
10 x 150	-	-	405	1,079	1,505	1,586	1,273	1,686	10
10 x 200	-	-	568	1,521	2,116	2,227	1,791	2,374	10
10 x 250	-	-	716	2,008	2,796	2,941	2,353	3,132	10
12 x 75	1/2 x 3	12.70 x 76.20	299	748	1,073	1,128	883	1,175	10
12 x 100	1/2 x 4	12.70 x 101.60	376	999	1,399	1,472	1,180	1,575	10
12 x 150	1/2 x 6	12.70 x 152.40	573	1,538	2,193	2,313	1,811	2,418	10
12 x 200	1/2 x 8	12.70 x 203.20	753	2,149	3,061	3,221	2,529	3,371	10
12 x 250	1/2 x 10	12.70 x 254.00	1,147	3,009	4,208	4,435	3,540	4,705	10
14 x 100	9/16 x 4	14.29 x 101.60	463	1,284	1,726	1,820	1,514	1,941	1
14 x 150	9/16 x 6	14.29 x 152.40	711	1,941	2,606	2,742	2,276	2,921	1
14 x 200	9/16 x 8	14.29 x 203.20	976	2,694	3,625	3,816	3,167	4,061	1
16 x 100	5/8 x 4	15.88 x 101.60	595	1,646	2,353	2,479	1,942	2,578	1
16 x 150	5/8 x 6	15.88 x 152.40	877	2,475	3,447	3,625	2,908	3,862	1
16 x 200	5/8 x 8	15.88 x 203.20	1,185	3,382	4,832	5,088	3,982	5,286	1
-	3/4 x 4	19.05 x 101.60	822	2,290	3,231	3,401	2,692	3,586	1
-	3/4 x 6	19.05 x 152.40	1,202	3,428	4,741	4,994	4,038	5,373	1
-	3/4 x 8	19.05 x 203.20	1,644	4,602	6,497	6,839	5,411	7,203	1
20 x 100	-	-	898	2,495	3,525	3,712	2,933	3,907	1
20 x 150	-	-	1,308	3,735	5,282	5,563	4,400	5,861	1
20 x 200	-	-	1,788	4,978	7,043	7,416	5,867	7,809	1
25 x 150	1 x 6	25.40 x 152.40	2,023	5,694	7,954	8,376	6,698	8,901	1
25 x 200	1 x 8	25.40 x 203.20	2,751	7,591	10,604	11,163	8,931	11,868	1

(Square Toolbit blanks are with bevelled ends)

- ZEDD = (HSS With 0% Cobalt) (62-65 HRc)
- S100 = M35 (HSS With 5% Cobalt) (63-65 HRc)
- S200 = M42 (HSS With 8% Cobalt) (65-68 HRc)
- S400 = T42 (HSS With 10% Cobalt) (64-67 HRc)
- S400E = M35 with Cryogenic (Ultra Low) Heat Treatment (64-67 HRc)
- S500 = T42 with Cryogenic (Ultra Low) Heat Treatment (65-69 HRc)

HSS FLAT (RECTANGULAR) TOOLBIT BLANKS

NOMINAL SIZE			GRADES		PKT. QTY.
MM	INCH	EQUIVALENT MM	MARK III	T42	
			Price Each Rs.	Price Each Rs.	
3 x 20 x 150	1/8 x 3/4 x 6	3.18 x 19.05 x 152.40	943	1,472	10
3 x 25 x 150	1/8 x 1 x 6	3.18 x 25.40 x 152.40	1,346	2,104	10
5 x 25 x 150	3/16 x 1 x 6	4.76 x 25.40 x 152.40	1,480	2,582	10
6 x 12 x 100	1/4 x 1/2 x 4	6.35 x 12.70 x 101.60	569	888	10
6 x 12 x 150	1/4 x 1/2 x 6	6.35 x 12.70 x 152.40	870	1,368	10
6 x 16 x 150	1/4 x 5/8 x 6	6.35 x 15.88 x 152.40	1,037	1,681	10
6 x 20 x 150	1/4 x 3/4 x 6	6.35 x 19.05 x 152.40	1,230	1,926	10
6 x 25 x 150	1/4 x 1 x 6	6.35 x 25.40 x 152.40	1,502	2,348	10
10 x 12 x 100	3/8 x 1/2 x 4	9.53 x 12.70 x 101.60	855	1,340	10
10 x 16 x 100	3/8 x 5/8 x 4	9.53 x 15.88 x 101.60	949	1,487	10
10 x 16 x 150	3/8 x 5/8 x 6	9.53 x 15.88 x 152.40	1,482	2,313	10
10 x 20 x 150	3/8 x 3/4 x 6*	9.53 x 19.05 x 152.40	1,708	2,664	10
10 x 25 x 150	3/8 x 1 x 6	9.53 x 25.40 x 152.40	2,928	4,574	10
12 x 16 x 150	1/2 x 5/8 x 6	12.70 x 15.88 x 152.40	1,827	3,244	1
12 x 20 x 150	1/2 x 3/4 x 6	12.70 x 19.05 x 152.40	2,022	3,586	1
12 x 25 x 150	1/2 x 1 x 6	12.70 x 25.40 x 152.40	2,651	4,152	1
16 x 20 x 150	5/8 x 3/4 x 6	15.88 x 19.05 x 152.40	2,753	4,703	1
20 x 25 x 150	3/4 x 1 x 6	19.05 x 25.40 x 152.40	3,876	7,439	1

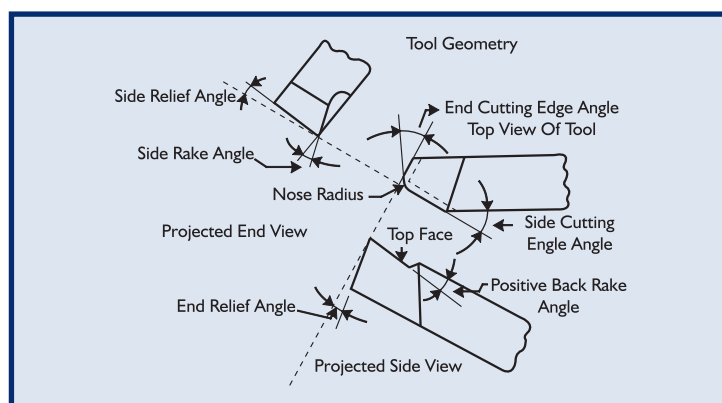
- Mark III - M35 (HSS with 5% Cobalt) (63-66 HRc), T42 (HSS with 10% Cobalt)

HSS PARTING TOOLBITS

NOMINAL SIZE		GRADES		PKT. QTY.
INCH	EQUIVALENT MM	MARK II	T42	
		Price Each Rs.	Price Each Rs.	
3/32 x 1/2 x 4	2.38 x 12.70 x 101.60	745	1,306	10
3/32 x 5/8 x 5	2.38 x 15.88 x 127.00	933	1,717	10
1/8 x 3/4 x 6*	3.18 x 19.05 x 152.40	1,189	2,108	10
1/8 x 7/8 x 6	3.18 x 22.23 x 152.40	1,392	2,574	10
3/16 x 1 x 6	4.76 x 25.40 x 152.40	1,730	2,949	10

- Mark II - M2 (HSS with 0% Cobalt) (62-65 HRc), T42 (HSS with 10% Cobalt)

ToolBit Terms - General Features



HSS TOOL BIT BLANK



New Launch

(1/4"x4") 6.35x101.60 mm

(3/8"x4") 9.53x101.60mm

MIRANDA ZEDD PLUS

MIRANDA ZEDD PLUS





HSS TOOL BIT BLANK

PRODUCT CODE	DESC	PRIZE PER PICE	PACKING QTY.
MIRTSAI05CI0505100	TOOLBIT BLANK SQ 3/16"X4" H SS ZEDD+	174	10
MIRTSAI05CI0505150	TOOLBIT BLANK SQ 3/16"X6" H SS ZEDD+	269	10
MIRTSAI05CI0606075	TOOLBIT BLANK SQ 1/4"X3" ZEDD +	151	10
MIRTSAI05CI0606100	TOOLBIT BLANK SQ 1/4"X4" ZEDD +	176	10
MIRTSAI05CI0606150	TOOLBIT BLANK SQ 1/4"X6" ZEDD +	253	10
MIRTSAI05CI0808075	TOOLBIT BLANK SQ 5/16"X3" H SS ZEDD+	167	10
MIRTSAI05CI0808100	TOOLBIT BLANK SQ 5/16"X4" H SS ZEDD+	217	10
MIRTSAI05CI0808150	TOOLBIT BLANK SQ 5/16"X6" H SS ZEDD+	357	10
MIRTSAI05CI1010075	TOOLBIT BLANK SQ 3/8"X3" ZEDD +	208	10
MIRTSAI05CI1010100	TOOLBIT BLANK SQ 3/8"X4" ZEDD +	253	10
MIRTSAI05CI1010150	TOOLBIT BLANK SQ 3/8"X6" ZEDD +	395	10
MIRTSAI05CI1010200	TOOLBIT BLANK SQ 3/8"X8" ZEDD +	535	10
MIRTSAI05CI1212075	TOOLBIT BLANK SQ 1/2"X3" ZEDD +	314	10
MIRTSAI05CI1212100	TOOLBIT BLANK SQ 1/2"X4" ZEDD +	395	10
MIRTSAI05CI1212150	TOOLBIT BLANK SQ 1/2"X6" ZEDD +	603	10
MIRTSAI05CI1212200	TOOLBIT BLANK SQ 1/2"X8" ZEDD +	788	10
MIRTSAI05CI1616100	TOOLBIT BLANK SQ 5/8"X4" ZEDD +	626	10
MIRTSAI05CI1616150	TOOLBIT BLANK SQ 5/8"X6" ZEDD +	921	10
MIRTSAI05CI2020150	TOOLBIT BLANK SQ 3/4"X6" ZEDD +	1262	10
MIRTSAI05CI2525150	TOOLBIT BLANK SQ 1"X6" ZEDD +	2125	10
MIRTSAI05CI2525200	TOOLBIT BLANK SQ 1"X8" ZEDD +	2888	10

FEATURE

- Superior Performance
- Improved Wear Resistance
- Extended Pointing Frequency
- Special Surface Treatment
- Excellent Performance on Critical Application



MIRANDA Gold Drills



MIRANDA Super Drills

MIRANDA Gold Drills

SIZE RANGE : GOLD JOBBER DRILL

- Metric size : 1.0 mm to 20.0 mm
- Inch size : 3/64" to 25/32"

APPLICATION :

- Suitable for non ferrous metals.
- Suitable for aluminium alloy & Cast steel material.
- Suitable for material up to 25HRc.
- Suitable for general application

MIRANDA Super Drills

SIZE RANGE : SUPER JOBBER DRILL

- Metric size : 1.00 mm to 16.0 mm
- Inch size : 3/64" to 5/8"

APPLICATION :

- Drilling alloy steel up to 28-35 HRc.
- Suitable for drilling all types of stainless steel materials.
- Suitable for forged steel components.
- All Titanium alloys, Hastelloy, Inconel and Heat Resistant steels.



HSS DRILLS

HSS PARALLEL SHANK JOBBER SERIES (IS : 5101 - 1991)



SIZES			PRICE Rs. / 10 Nos.			SIZES			PRICE Rs. / 10 Nos.		
MM	INCH	DG	STD JOBBER DRILLS M2	GOLD JOBBER DRILLS M2	SUPER JOBBER DRILLS M35	MM	INCH	DG	STD JOBBER DRILLS M2	GOLD JOBBER DRILLS M2	SUPER JOBBER DRILLS M35
1.00	-	-	431	478	615	2.90	-	-	464	513	660
1.02	-	60	431	478	615	2.95	-	32	464	513	660
1.04	-	59	431	478	615	3.00	-	-	464	513	660
1.07	-	58	431	478	615	3.05	-	31*	607	674	864
1.09	-	57	431	478	615	3.10	-	-	607	674	864
1.10	-	-	431	478	615	3.17	1/8	-	607	674	864
1.18	-	56	431	478	615	3.20	-	-	623	691	887
1.19	3/64	-	431	478	615	3.26	-	30	623	691	887
1.20	-	-	431	478	615	3.30	-	-	623	691	887
1.30	-	-	431	478	615	3.40	-	-	623	691	887
1.32	-	55	431	478	615	3.45	-	29	623	691	887
1.40	-	54	431	478	615	3.50	-	-	623	691	887
1.50	-	-	431	478	615	3.57	9/64	28	623	691	887
1.51	-	53	431	478	615	3.60	-	-	928	1,029	1324
1.59	1/16	-	431	478	615	3.66	-	27	928	1,029	1324
1.60	-	-	431	478	615	3.70	-	-	928	1,029	1324
1.61	-	52	451	501	644	3.73	-	26	928	1,029	1324
1.70	-	51	451	501	644	3.80	-	25	928	1,029	1324
1.78	-	50	451	501	644	3.86	-	24	928	1,029	1324
1.80	-	-	451	501	644	3.90	-	-	928	1,029	1324
1.85	-	49	451	501	644	3.91	-	23	928	1,029	1324
1.90	-	-	451	501	644	3.97	5/32	-	928	1,029	1324
1.93	-	48	451	501	644	3.99	-	22	928	1,029	1324
1.98	5/64	-	451	501	644	4.00	-	-	928	1,029	1324
1.99	-	47	451	501	644	4.04	-	21	1,119	1,240	1594
2.00	-	-	451	501	644	4.09	-	20	1,119	1,240	1594
2.06	-	46	451	501	644	4.10	-	-	1,119	1,240	1594
2.08	-	45	451	501	644	4.20	-	-	1,119	1,240	1594
2.10	-	-	451	501	644	4.22	-	19	1,119	1,240	1594
2.18	-	44	451	501	644	4.30	-	18	1,119	1,240	1594
2.20	-	-	451	501	644	4.37	11/64	-	1,119	1,240	1594
2.26	-	43	451	501	644	4.39	-	17	1,119	1,240	1594
2.30	-	-	451	501	644	4.40	-	-	1,119	1,240	1594
2.37	-	42	451	501	644	4.50	-	16	1,469	1,632	2094
2.38	3/32	-	451	501	644	4.57	-	15	1,469	1,632	2094
2.40	-	-	451	501	644	4.60	-	-	1,469	1,632	2094
2.44	-	41	451	501	644	4.62	-	14	1,469	1,632	2094
2.49	-	40	451	501	644	4.70	-	13	1,469	1,632	2094
2.50	-	-	451	501	644	4.76	3/16	-	1,469	1,632	2094
2.53	-	39	451	501	644	4.80	-	12	1,469	1,632	2094
2.58	-	38	451	501	644	4.85	-	11	1,614	1,791	2299
2.60	-	-	451	501	644	4.90	-	-	1,614	1,791	2299
2.64	-	37*	451	501	644	4.92	-	10	1,614	1,791	2299
2.70	-	-	451	501	644	4.98	-	9	1,614	1,791	2299
2.71	-	36	451	501	644	5.00	-	-	1,614	1,791	2299
2.78	7/64	-	451	501	644	5.06	-	8	1,614	1,791	2299
2.79	-	35	464	513	660	5.10	-	-	1,614	1,791	2299
2.80	-	-	464	513	660	5.11	-	7	1,614	1,791	2299
2.82	-	34	464	513	660	5.16	13/64	-	1,614	1,791	2299
2.87	-	33	464	513	660	5.18	-	6	1,614	1,791	2299

HSS DRILLS

HSS PARALLEL SHANK JOBBER SERIES (IS : 5101 - 1991)

SIZES			PRICE Rs. / 10 Nos.			SIZES			PRICE Rs. / 10 Nos.		
MM	INCH	DG	STD JOBBER DRILLS	GOLD JOBBER DRILLS	SUPER JOBBER DRILLS	MM	INCH	DG	STD JOBBER DRILLS	GOLD JOBBER DRILLS	SUPER JOBBER DRILLS
5.20*	-	-	1,614	1,791	2,299	9.13	23/64	-	4,960	5,509	7077
5.22	-	5	1,743	1,935	2,488	9.20	-	-	4,960	5,509	7077
5.30*	-	-	1,743	1,935	2,488	9.30	-	-	4,960	5,509	7077
5.31	-	4	1,743	1,935	2,488	9.34	-	U	4,960	5,509	7077
5.40*	-	-	1,743	1,935	2,488	9.40*	-	-	4,960	5,509	7077
5.41	-	3	1,743	1,935	2,488	9.50*	-	-	4,960	5,509	7077
5.50*	-	-	1,743	1,935	2,488	9.52	3/8*	-	5,645	6,268	8053
5.56	7/32*	-	1,743	1,935	2,488	9.60	-	-	5,645	6,268	8053
5.60	-	-	1,743	1,935	2,488	9.70	-	-	5,645	6,268	8053
5.61	-	2	1,941	2,156	2,769	9.80	-	-	5,645	6,268	8053
5.70	-	-	1,941	2,156	2,769	9.90	-	-	6,292	6,984	8972
5.79	-	1	1,941	2,156	2,769	9.92	25/64	-	6,292	6,984	8972
5.80*	-	-	1,941	2,156	2,769	10.00*	-	-	6,292	6,984	8972
5.90*	-	-	1,941	2,156	2,769	10.10*	-	-	6,292	6,984	8972
5.95	15/64*	-	1,941	2,156	2,769	10.20*	-	-	6,292	6,984	8972
6.00*	-	-	1,941	2,156	2,769	10.30*	-	-	6,847	7,599	9761
6.04	-	B	2,127	2,363	3,033	10.32	13/32*	-	6,847	7,599	9761
6.10*	-	-	2,127	2,363	3,033	10.40	-	-	6,847	7,599	9761
6.15	-	C	2,127	2,363	3,033	10.50*	-	-	6,847	7,599	9761
6.20*	-	-	2,127	2,363	3,033	10.60	-	-	6,847	7,599	9761
6.30*	-	-	2,127	2,363	3,033	10.70	-	-	7,235	8,034	10317
6.35	1/4*	E	2,127	2,363	3,033	10.72	27/64	-	7,235	8,034	10317
6.40	-	-	2,127	2,363	3,033	10.80*	-	-	7,235	8,034	10317
6.50*	-	-	2,716	3,015	3,874	10.90	-	-	7,235	8,034	10317
6.60*	-	-	2,716	3,015	3,874	11.00*	-	-	7,235	8,034	10317
6.63	-	G	2,716	3,015	3,874	11.10*	-	-	8,076	8,963	11516
6.70*	-	-	2,716	3,015	3,874	11.11	7/16*	-	8,076	8,963	11516
6.75	17/64*	H	2,716	3,015	3,874	11.20	-	-	8,076	8,963	11516
6.80*	-	-	2,716	3,015	3,874	11.30	-	-	8,076	8,963	11516
6.90*	-	-	2,971	3,296	4,236	11.40	-	-	8,076	8,963	11516
7.00*	-	J	2,971	3,296	4,236	11.50*	-	-	8,509	9,444	12133
7.10	-	-	2,971	3,296	4,236	11.51	29/64	-	8,509	9,444	12133
7.14	9/32*	K	2,971	3,296	4,236	11.60	-	-	8,509	9,444	12133
7.20	-	-	2,971	3,296	4,236	11.70	-	-	8,509	9,444	12133
7.30*	-	-	3,139	3,487	4,479	11.80*	-	-	8,509	9,444	12133
7.40	-	-	3,139	3,487	4,479	11.90	-	-	9,094	10,099	12970
7.50*	-	-	3,139	3,487	4,479	11.91	15/32	-	9,094	10,099	12970
7.54	19/64*	-	3,409	3,784	4,863	12.00*	-	-	9,094	10,099	12970
7.60	-	-	3,410	3,784	4,863	12.10	-	-	9,094	10,099	12970
7.70	-	-	3,410	3,784	4,863	12.20	-	-	9,094	10,099	12970
7.80*	-	-	3,410	3,784	4,863	12.30	31/64	-	9,645	10,708	13754
7.90*	-	-	3,726	4,136	5,313	12.40	-	-	9,645	10,708	13754
7.94	5/16*	-	3,726	4,136	5,313	12.50*	-	-	9,645	10,708	13754
8.00*	-	-	3,726	4,136	5,313	12.60	-	-	9,645	10,708	13754
8.03	-	O	3,726	4,136	5,313	12.70	1/2*	-	10,179	11,299	14516
8.10*	-	-	3,726	4,136	5,313	12.80	-	-	10,179	11,299	14516
8.20*	-	-	3,726	4,136	5,313	12.90	-	-	10,179	11,299	14516
8.30	-	-	4,507	5,003	6,427	13.00*	-	-	10,179	11,299	14516
8.33	21/64*	-	4,507	5,003	6,427	13.10	33/64	-	12,665	14,059	18062
8.40	-	-	4,507	5,003	6,427	13.20	-	-	12,665	14,059	18063
8.50*	-	-	4,507	5,003	6,427	13.30	-	-	12,665	14,059	18063
8.60*	-	-	4,507	5,003	6,427	13.40	-	-	12,665	14,059	18063
8.70*	-	-	4,507	5,003	6,427	13.49	17/32*	-	13,469	14,953	19210
8.73	11/32*	-	4,806	5,335	6,853	13.50*	-	-	13,469	14,953	19210
8.80	-	-	4,806	5,335	6,853	13.60	-	-	13,469	14,953	19210
8.90	-	-	4,806	5,335	6,853	13.70	-	-	13,469	14,953	19210
9.00*	-	-	4,806	5,335	6,853	13.80	-	-	13,469	14,953	19210
9.10	-	-	4,960	5,509	7,077	13.89	35/64	-	14,627	16,240	20861

SIZES			PRICE Rs. / 10 Nos.		
MM	INCH	DG	STD JOBBER DRILLS	GOLD JOBBER DRILLS	SUPER JOBBER DRILLS
13.90	-	-	14,627	16,239	20,861
14.00*	-	-	14,627	16,239	20,861
14.25	-	-	14,627	16,239	20,861
14.29	9/16	-	15,333	17,021	21,868
14.50*	-	-	16,509	17,021	21,868
14.68	37/64	-	16,509	18,327	23,542
14.75	-	-	16,509	18,327	23,542
15.00*	-	-	16,509	18,327	23,542
15.08	19/32	-	16,509	18,327	23,542
15.25	-	-	16,509	18,327	23,542

SIZES			PRICE Rs. / 10 Nos.		
MM	INCH	DG	STD JOBBER DRILLS	GOLD JOBBER DRILLS	SUPER JOBBER DRILLS
15.50*	-	-	17,920	19,891	25,553
15.75	-	-	17,920	19,891	25,553
15.87	5/8*	-	17,920	19,891	25,553
16.00*	-	-	17,920	19,891	25,553
17.00	-	-	18,969	21,058	
17.46	11/16	-	18,969	21,058	
18.00	-	-	20,531	22,792	
19.00	-	-	21,707	24,096	
19.05	3/4	-	21,707	24,096	
20.00	-	-	25,936	28,790	

DRILL SET (IS : 5101 - 1991)

DRILL SET	PRICE Rs. / SET	
	STD. JOBBER DRILLS	GOLD JOBBER DRILLS
1.50 TO 6.50 MM (13 Pcs.)	1,682	1,869
1.00 TO 10.00 MM (19 Pcs.)	4,687	5,205
1.00 TO 13.00 MM (25 Pcs.)	9,924	11,015
1/16 TO 1/4 INCH (13 Pcs.)	1,682	1,869
1/16 TO 3/8 INCH (21 Pcs.)	5,001	5,559
1/16 TO 1/2 INCH (29 Pcs.)	11,030	12,911

HSS PARALLEL SHANK STUB SERIES (IS : 5100 - 1969)

SIZES		PRICE Rs. / 10 Nos.		
MM	INCH	STD. STUB DRILLS	GOLD STUB DRILLS	SUPER STUB DRILLS
1.50		446	494	-
1.60		446	494	-
1.90		446	494	-
2.00		446	494	-
2.20		446	494	-
2.50		446	494	-
2.78	7/64	446	494	-
2.90		485	540	-
3.00	-	500	557	715
3.17	1/8*	591	657	843
3.20	-	624	691	888
3.50	-	624	691	888
3.57	9/64	624	691	888
3.97	5/32*	886	982	1,263
4.00	-	886	982	1,263
4.20	-	996	1,105	1,420
4.50	-	1,317	1,465	1,880
4.76	3/16	1,317	1,465	1,880
5.00	-	1,411	1,565	2,010
5.16	13/64	1,411	1,565	2,010
5.50	-	1,529	1,697	2,177
5.56	7/32	1,529	1,697	2,177
6.00	-	1,730	1,917	2,464

SIZES		PRICE Rs. / 10 Nos.		
MM	INCH	STD. STUB DRILLS	GOLD STUB DRILLS	SUPER STUB DRILLS
6.35	1/4	1,932	2,145	2,755
6.50	-	2,370	2,630	3,378
6.75	17/64	2,370	2,630	3,378
6.80	-	2,370	2,630	3,378
7.00	-	2,604	2,888	3,712
7.14	9/32*	2,604	2,888	3,712
7.50	-	2,698	2,995	3,848
7.94	5/16*	3,268	3,629	4,661
8.00	-	3,268	3,629	4,661
8.50	-	4,091	4,542	5,835
9.00	-	4,273	4,743	6,094
9.50	-	4,508	5,004	6,427
9.52	3/8	4,708	5,226	6,713
10.00	-	5,762	6,399	8,219
10.50	-	6,199	6,882	-
11.00	-	6,980	7,748	9,952
11.11	7/16	7,748	8,072	10,369
12.00	-	8,236	9,144	11,745
12.70	1/2	9,121	10,124	13,007
13.00	-	9,121	10,124	13,007
14.00	-	12,432	13,797	-
15.00	-	13,999	15,539	-
16.00	-	15,176	16,848	-

• Standard, Gold - Stub & Jobber Series = M2

• Super Stub & Jobber = M35

HSS DRILLS

HSS PARALLEL SHANK LONG SERIES (IS : 5102 - 1969)

SIZES		PRICE Rs. / PIECE	SIZES		PRICE Rs. / PIECE	SIZES		PRICE Rs. / PIECE
MM	INCH		MM	INCH		MM	INCH	
1.00	-	268	3.57	9/64	348	7.00	-	973
1.10	-	268	3.70	-	377	7.20	-	973
1.19	-	268	3.80	-	377	7.50	-	973
1.20	-	268	3.97	5/32	377	7.80	-	973
1.30	-	268	4.00	-	377	7.94	5/16	1,002
1.40	-	268	4.10	-	377	8.00	-	1,002
1.50	-	268	4.20	-	377	8.10	-	1,002
1.59	1/16	268	4.30	-	377	8.20	-	1,002
1.60	-	268	4.50	-	377	8.50	-	1,002
1.70	-	268	4.76	3/16	377	9.00	-	1,109
1.80	-	268	4.80	-	377	9.50	-	1,109
1.90	-	268	4.90	-	437	9.52	3/8	1,109
1.98	5/64	268	5.00	-	437	9.80	-	1,292
2.00	-	268	5.10	-	437	10.00	-	1,396
2.10	-	268	5.16	13/64	437	10.20	-	1,462
2.20	-	268	5.20	-	437	10.50	-	1,504
2.30	-	343	5.30	-	512	11.00	-	1,705
2.38	3/32	343	5.50	-	512	11.50	-	1,553
2.40	-	343	5.56	7/32	512	11.80	-	1,553
2.50	-	343	5.60	-	554	12.00	-	1,553
2.60	-	343	5.80	-	554	12.50	-	2,154
2.70	-	343	5.90	-	554	12.70	1/2	2,393
2.78	7/64	343	5.95	15/64	554	13.00	-	2,393
2.80	-	343	6.00	-	554	13.50	-	2,393
2.90	-	343	6.10	-	627	14.00	-	2,393
3.00	-	348	6.35	1/4	575	14.29	9/16	2,393
3.10	-	348	6.50	-	805	14.50	-	2,504
3.17	1/8	348	6.60	-	973	15.00	-	2,504
3.20	-	348	6.75	17/64	973	15.50	-	2,604
3.30	-	348	6.80	-	973	15.87	5/8	2,604
3.50	-	348	6.90	-	973	16.00	-	2,638

Note : Minimum order value required is Rs.10000/- nett.

HSS PARALLEL SHANK - EXTRA LONG SERIES

SIZES		OAL MM FL MM	PRICE Rs. / PIECE						
MM	INCH		150	175	200	225	250	300	350
3.00	1/8	-	1,012	1,219	1,394	1,643	1,970	2,362	-
3.50	-	-	1,053	1,226	1,402	1,903	2,111	2,787	-
4.00	5/32	-	1,011	1,226	1,402	1,905	2,118	2,787	3,836
4.50	-	-	1,018	1,256	1,435	1,908	2,122	2,987	3,933
5.00	3/16	-	1,044	1,285	1,462	1,944	2,167	3,055	4,010
5.50	7/32	-	1,103	1,352	1,553	2,087	2,312	3,062	4,033
6.00	-	-	1,103	1,385	1,579	2,138	2,378	3,143	4,677
6.50	1/4	-	-	-	1,912	-	2,761	3,560	4,677
7.00	-	-	-	-	2,007	-	3,004	3,603	5,233
7.50	9/32	-	-	-	2,118	-	3,174	3,812	5,253
8.00	5/16	-	-	-	2,239	-	3,363	3,875	5,373
8.50	11/32	-	-	-	2,317	-	3,423	3,991	4,889
9.00	-	-	-	-	2,324	-	3,423	3,991	4,889
9.50	3/8	-	-	-	2,391	-	3,431	4,114	5,039
10.00	-	-	-	-	2,429	-	3,504	4,649	5,711
10.50	13/32	-	-	-	2,638	-	3,640	4,889	6,198
11.00	7/16	-	-	-	-	-	3,671	4,997	6,462
11.50	-	-	-	-	-	-	3,848	5,092	6,717
12.00	15/32	-	-	-	-	-	3,858	5,107	6,886
12.50	1/2	-	-	-	-	-	4,088	5,414	7,299

Note : Other details will be maintained as per IS : 7823 - 2005.

- MOQ up to 6 mm - 30 Nos.
- MOQ above to 6 mm - 15 Nos.

HSS DRILLS
HSS CENTRE DRILLS



TYPE 'A' & 'R' IS : 6708/6710 - 1977			TYPE 'B' IS : 6709 - 1977			B.S. 328 (PART 2) 1950			
PILOT DIA MM	BODY DIA MM	PRICE RS./PIECE	PILOT DIA MM	BODY DIA MM	PRICE RS./PIECE	SIZE B.S. NO.	PILOT DIA INCH	BODY DIA INCH	PRICE RS./PIECE
1.00	3.15	239	1.00	4.00	392	BS-1	3/64"	1/8"	239
1.25	3.15	239	1.25	5.00	422	BS-2	1/16"	3/16"	239
1.60	4.00	239	1.60	6.30	494	BS-3	3/32"	1/4"	274
2.00	5.00	239	2.00	8.00	694	BS-4	1/8"	5/16"	427
2.50	6.30	274	2.50	10.00	885	BS-5	3/16"	7/16"	563
3.15	8.00	427	3.15	11.20	1,184	BS-6	1/4"	5/8"	1,058
4.00	10.00	528	4.00	14.00	1,586	BS-7	5/16"	3/4"	1,636
5.00	12.50	897	5.00	18.00	2,264	-	-	-	-
6.30	16.00	1,058	6.30	20.00	2,666	-	-	-	-
8.00	20.00	1,636	-	-	-	-	-	-	-

HSS TAPER SHANK DRILLS
IS : 5103 - 1969

SIZES		PRICE RS. / PIECE		SIZES		PRICE RS. / PIECE		SIZES		PRICE RS. / PIECE	
MM	INCH	REGULAR	SUPER	MM	INCH	REGULAR	SUPER	MM	INCH	REGULAR	SUPER
3.00	-	432	633	10.20	-	1,104	1,661	17.25	-	2,864	4,195
3.20	-	454	665	10.50	-	1,308	1,969	17.46	11/16*	2,864	4,195
3.50	-	432	633	10.80	-	1,368	2,057	17.50	-	2,969	4,352
3.80	-	454	665	11.00	-	1,368	2,057	17.75	-	3,004	4,402
4.00	-	432	633	11.11	7/16*	1,368	2,057	18.00	-	3,141	4,603
4.20	-	583	853	11.20	-	1,406	2,115	18.25	-	3,141	4,603
4.50	-	583	853	11.50	-	1,406	2,115	18.26	23/32	3,141	4,603
4.76	3/16	583	853	11.80	-	1,406	2,115	18.50	-	3,141	4,603
4.80	-	600	880	12.00	-	1,428	2,147	18.75	-	3,169	4,644
5.00	-	583	853	12.20	-	1,428	2,147	19.00	-	3,169	4,644
5.20	-	600	880	12.50	-	1,428	2,147	19.05	3/4*	3,169	4,644
5.50	-	583	853	12.70	1/2*	1,428	2,974	19.25	-	3,329	4,878
5.80	-	600	880	12.80	-	1,977	2,974	19.50	-	3,329	4,878
6.00	-	583	853	13.00	-	1,977	2,974	19.75	-	3,329	4,878
6.20	-	662	967	13.20	-	2,070	3,114	19.84	25/32	3,329	4,878
6.35	1/4*	651	955	13.49	17/32*	2,070	3,114	20.00	-	3,578	5,243
6.50	-	665	972	13.50	-	2,216	3,334	20.25	51/64	3,614	5,297
6.75	17/64*	674	986	13.80	-	2,216	3,334	20.50	-	3,614	5,297
6.80	-	674	986	14.00	-	2,216	3,334	20.64	13/16*	3,614	5,297
7.00	-	665	972	14.25	-	2,372	3,571	20.75	-	3,779	5,538
7.20	-	674	986	14.29	9/16*	2,372	3,571	21.00	-	3,779	5,538
7.50	-	665	972	14.50	-	2,477	3,727	21.25	-	3,880	5,684
7.80	-	674	986	14.75	-	2,477	3,727	21.43	27/32	3,880	5,684
7.94	5/16*	665	972	15.00	-	2,477	3,727	21.50	-	3,985	5,837
8.00	-	665	972	15.25	-	2,517	3,785	21.75	-	3,985	5,837
8.20	-	953	1,396	15.50	-	2,517	3,785	22.00	-	4,062	5,952
8.50	-	866	1,267	15.75	-	2,517	3,785	22.22	7/8	4,062	5,952
8.80	-	1,048	1,533	15.87	5/8*	2,517	3,785	22.25	-	4,428	6,488
9.00	-	953	1,396	16.00	-	2,574	3,872	22.50	-	4,428	6,488
9.20	-	1,048	1,533	16.25	-	2,574	3,872	22.75	-	4,513	6,611
9.50	-	953	1,396	16.50	-	2,751	4,139	23.00	29/32	4,513	6,611
9.52	3/8*	953	1,396	16.67	21/32	2,751	4,139	23.25	-	4,733	6,937
9.80	-	1,122	1,645	16.75	-	2,751	4,139	23.50	-	5,387	7,892
10.00	-	1,013	1,543	17.00	-	2,751	4,139	23.75	-	5,387	7,892

Note : • Minimum order value required is Rs.10000 /-

• MOQ in Super Series : From 3mm to 10mm - 50 Nos.,
From 10mm to 20mm - 30 Nos.

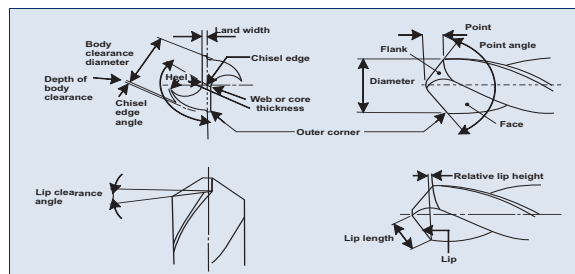
From 20mm to 32mm - 10 Nos.
From 32mm to 50mm - 5 Nos.

Above 50mm - 2 Nos.

SIZES		PRICE RS. / PIECE	
MM	INCH	REGULAR	SUPER
24.00*	-	5,528	8,099
24.25	-	5,628	8,248
24.50*	-	5,628	8,248
24.75	-	5,891	8,633
25.00*	63/64	5,891	8,633
25.40	1*	5,971	8,749
25.50*	-	6,484	9,499
25.75	-	6,484	9,499
26.00*	-	6,541	9,584
26.25	-	7,032	10,304
26.50*	-	7,191	10,539
27.00*	-	7,421	10,874
27.25	-	7,437	10,899
27.50	-	7,437	10,899
27.75	-	7,437	10,899
28.00*	-	8,171	11,973
28.25	-	8,171	11,973
28.50	-	8,171	11,973
28.58	1.1/8	8,171	11,973
28.75	-	8,411	12,325
29.00*	-	8,534	12,506
29.25	-	8,534	12,506
29.50	-	8,578	12,571
29.75	-	8,578	12,571
30.00*	-	8,757	12,834
30.25	-	9,956	14,589
30.50*	-	9,956	14,589
30.75	-	10,117	14,824
31.00*	-	11,256	16,496
31.50	-	11,763	17,239
31.75	1.1/4	11,763	17,239
32.00*	-	12,879	18,874
32.50	-	12,879	18,874
33.00*	-	13,201	19,345
33.34	1.5/16	13,201	19,345
33.50	-	13,655	20,010
34.00*	-	13,920	20,399
34.50	-	15,239	22,331
34.93	1.3/8	15,362	22,511
35.00*	-	15,362	22,511
35.50	-	16,297	23,880
36.00*	-	16,538	24,235

SIZES		PRICE RS. / PIECE	
MM	INCH	REGULAR	SUPER
36.50	1.7/16	16,860	24,708
37.00*	-	17,265	25,300
37.50	-	18,407	26,973
38.00*	-	18,692	27,392
38.10	1.1/2	18,692	27,392
38.50	1.33/64	19,257	28,219
39.00*	-	20,399	29,893
39.50	-	20,399	29,893
39.69	1.9/16	20,399	29,893
40.00*	-	20,929	30,668
40.50	-	22,140	32,444
41.00	-	22,140	32,444
41.27	1.5/8	22,140	32,444
41.50	-	23,007	33,716
42.00*	-	23,007	33,716
42.50	-	23,593	34,572
43.00	-	24,447	35,824
43.50	-	24,447	35,824
44.00	-	25,308	37,089
44.45	1.3/4	25,308	37,089
44.50	-	25,308	37,089
45.00*	-	25,901	37,955
45.50	-	27,076	39,676
46.00	-	27,076	39,676
46.50	-	28,435	41,669
47.00	-	28,435	41,669
47.50	-	29,033	42,544
47.62	1.7/8	29,033	42,544
48.00	-	31,660	46,396
48.50	-	31,896	46,742
49.00	-	31,896	46,742
49.50	-	32,232	47,235
50.00	-	32,232	47,235
50.50	-	33,953	49,754
50.80	2	33,953	49,754
51.00	-	46,091	67,542
52.00	-	46,091	67,542
52.50	-	59,987	87,907
53.00	-	59,987	87,907
53.50	-	59,987	87,907
53.97	2.1/8	59,987	87,907
54.00	-	59,987	87,907

SIZES		PRICE RS. / PIECE	
MM	INCH	REGULAR	SUPER
54.50	-	63,015	92,344
55.00	-	63,015	92,344
55.50	-	63,015	92,344
55.56	2.3/16	63,015	92,344
56.00	-	65,662	96,221
56.50	-	65,662	96,221
57.00	-	65,662	96,221
57.15	2.1/4	65,662	96,221
57.50	-	71,662	105,017
58.00	-	71,662	105,017
58.50	-	71,662	105,017
58.74	2.5/16	71,662	105,017
59.00	-	73,030	107,018
59.50	-	73,030	107,018
60.00	-	73,030	107,018
60.32	2.3/8	73,030	107,018
60.50	-	77,627	113,756
61.00	-	77,627	113,756
61.50	-	77,627	113,756
62.00	-	77,627	113,756
62.50	-	77,627	113,756
63.00	-	78,934	115,669
63.50	2.1/2	78,934	115,669
64.00	-	87,234	127,835
65.00	-	87,234	127,835
65.09	2.9/16	87,234	127,835
66.00	-	87,889	128,793
66.67	2.5/8	87,889	128,793
67.00	-	90,030	131,931
68.00	-	96,485	141,390
69.00	-	104,591	153,270
69.85	2.3/4	104,591	153,270
70.00	-	104,591	153,270
71.00	-	112,840	165,357
71.50	-	112,840	165,357
72.00	-	115,059	168,611
73.00	-	115,059	168,611
73.02	2.7/8	115,059	168,611
74.00	-	122,439	179,425
75.00	-	124,025	181,749
76.00	-	124,025	181,749
76.20	3	124,025	181,749



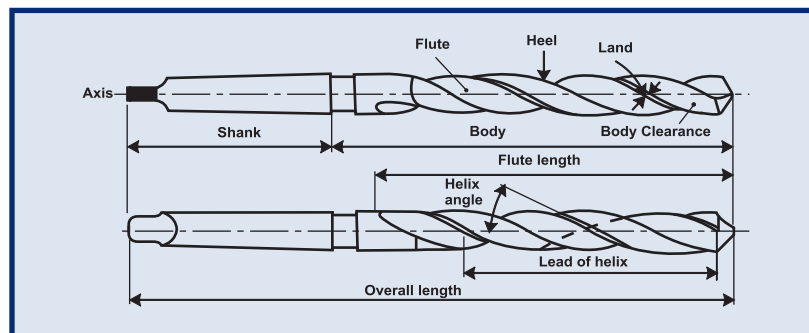
Note : • Minimum order value required is Rs.10000 /- • Tax extra as applicable on date of supply. • Prices are subjected to changes without notice.
 • MOQ in Super Series : From 3mm to 10mm - 50 Nos., From 20mm to 32mm - 10 Nos. Above 50mm - 2 Nos.
 From 10mm to 20mm - 30 Nos. From 32mm to 50mm - 5 Nos.

HSS DRILLS
HSS TAPER SHANK TWIST DRILLS (LONG SERIES)
IS : 8305 - 1976 (Type N)



SIZES		OAL	PRICE Rs. / PIECE
MM	INCH	MM	
5.00	-	155	1,425
5.16	13/64	155	1,425
5.56	7/32	161	1,590
6.00	-	161	1,590
6.35	1/4	167	1,779
6.50	-	167	1,779
7.00	-	174	1,911
7.50	-	174	1,975
7.94	5/16	181	2,087
8.00	-	181	2,087
8.50	-	181	2,131
9.00	-	188	2,307
9.50	-	188	2,361
9.52	3/8	197	2,361
10.00	-	197	2,684
10.50	-	197	2,761
11.00	-	206	2,820
11.11	7/16	206	2,923
11.50	-	206	2,923
12.00	-	215	3,471
12.50	-	215	3,659
12.70	1/2	215	3,659
13.00	-	215	3,659
13.49	17/32	223	4,005
13.50	-	223	4,005
14.00	-	223	4,168
14.29	9/16	245	5,203
14.50	-	245	5,203
15.00	-	245	5,213
15.50	-	251	5,443
15.87	5/8	251	5,583
16.00	-	251	5,583
16.50	-	257	5,681
17.00	-	257	5,799
17.50	-	263	6,299
18.00	-	263	6,311
18.50	-	269	6,414
19.00	-	269	6,516
19.05	3/4	275	6,516

SIZES		OAL	PRICE Rs. / PIECE
MM	INCH	MM	
19.50	-	275	6,694
20.00	-	275	6,807
20.50	-	282	6,920
21.00	-	282	7,048
21.43	27/32	289	8,187
21.50	-	289	8,187
21.75	-	289	8,354
22.00	-	289	8,354
22.22	7/8	289	8,921
22.50	-	296	8,921
23.00	-	296	9,348
23.50	-	319	11,423
24.00	-	327	11,423
24.50	-	327	11,923
25.00	-	327	12,354
25.40	1	335	12,354
25.50	-	335	12,354
26.00	-	335	12,849
26.50	-	335	13,222
27.00	-	343	15,672
27.50	-	343	16,170
28.00	-	343	16,672
28.50	-	351	17,205
29.00	-	351	17,690
29.50	-	351	18,183
30.00	-	351	18,698
30.50	-	360	19,191
31.00	-	360	19,191
31.50	-	360	19,330
32.00	-	397	23,128
32.50	-	397	24,124
33.00	-	397	24,124
34.00	-	406	25,175
34.50	-	406	26,279
35.00	-	406	26,279
36.00	-	416	28,798
38.00	-	426	32,354
38.10	1.1/2	426	33,413
40.00	-	426	34,738



HSS TAPER SHANK TWIST DRILLS (EXTRA LONG SERIES)

IS : 7822 - 2005

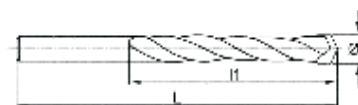
SIZES		OVERALL LENGTH IN MM									
MM	INCH	200	225	250	275	300	315	325	350	375	400
10.00	-	2,682	3,037	3,427	4,002	4,609	5,032	-	-	-	-
10.50	-	2,761	3,152	3,659	4,230	4,847	5,247	5,514	6,308	-	-
11.00	-	2,820	3,251	3,692	4,295	4,937	5,421	5,659	6,420	-	-
11.50	7/16	2,923	3,318	3,789	4,407	5,057	5,514	5,763	6,595	-	-
12.00	-	-	3,471	3,951	4,578	5,245	5,730	6,020	6,807	-	-
12.50	1/2	-	3,659	4,086	4,745	5,408	5,911	6,182	7,129	-	-

SIZES		OVERALL LENGTH IN MM									
MM	INCH	250	275	300	315	325	350	375	400	450	500
13.00	-	4,847	5,553	6,608	7,170	7,202	8,195	-	-	-	-
13.50	-	5,003	5,666	6,786	7,347	7,329	8,349	-	-	-	-
14.00	-	5,170	5,835	6,910	7,497	7,449	8,515	9,620	10,796	-	-
14.50	9/16	5,203	5,912	7,008	7,536	7,556	8,674	9,784	10,991	14,421	18,196
15.00	-	5,320	6,046	7,182	7,696	7,738	8,850	9,926	11,164	14,592	18,383
15.50	-	5,443	6,181	7,248	7,849	7,844	8,987	10,115	11,314	14,734	18,543
16.00	5/8	5,583	6,286	7,392	7,959	7,989	9,117	10,270	11,548	14,987	18,746
16.50	-	5,679	6,371	7,536	8,108	8,113	9,276	10,460	11,791	15,148	18,861
17.00	-	5,798	6,523	7,613	8,206	8,223	9,424	10,603	11,923	15,332	19,037
17.50	11/16	-	-	7,803	8,365	8,382	9,607	10,780	12,062	15,510	19,217
18.00	-	-	-	7,915	8,550	8,516	9,760	10,969	12,285	15,672	19,403
18.50	-	-	-	8,041	8,655	8,670	9,845	11,099	12,476	15,850	19,589

SIZES		OVERALL LENGTH IN MM									
MM	INCH	300	315	325	350	375	400	425	450	475	500
19.00	3/4	7,812	8,382	8,796	10,012	11,269	12,641	14,239	16,034	17,755	19,535
19.50	-	7,910	8,476	8,885	10,195	11,493	12,898	14,421	16,151	17,968	19,892
20.00	-	8,045	8,617	9,054	10,311	11,647	13,084	14,702	16,466	18,167	20,116
20.50	-	8,196	8,775	9,180	10,482	11,791	13,281	14,881	16,669	18,445	20,425
21.00	13/16	8,342	8,944	9,336	11,490	12,037	13,501	15,202	16,942	18,785	20,749
21.50	-	8,516	9,092	9,492	10,894	12,266	13,757	15,426	17,278	19,123	21,165
22.00	-	8,699	9,333	9,761	11,100	12,480	13,989	15,672	17,551	19,427	21,504
22.50	7/8	8,921	9,529	9,973	11,285	12,641	14,137	15,939	17,811	19,765	21,867
23.00	-	9,348	9,975	10,344	11,660	12,920	14,390	16,170	18,150	20,056	22,192
23.50	-	10,270	-	11,422	12,519	13,762	14,880	16,719	18,663	20,659	22,879
24.00	15/16	10,270	-	11,422	12,642	13,938	15,401	17,248	19,254	21,220	23,488
24.50	-	10,590	-	11,923	13,220	14,421	15,930	17,811	19,803	21,844	24,124
25.00	-	-	-	12,357	13,702	14,987	16,417	18,316	20,376	22,449	24,796
25.50	1	-	-	-	14,130	15,426	16,905	18,843	20,913	23,053	25,381
26.00	-	-	-	-	14,703	15,988	17,457	19,403	21,528	23,652	26,052
26.50	-	-	-	-	15,148	16,452	17,941	19,940	22,081	24,209	26,690
27.00	1.1/16	-	-	-	15,672	17,032	18,474	20,470	22,634	24,840	27,317
27.50	-	-	-	-	16,170	17,463	18,931	21,012	23,201	25,416	27,931
28.00	-	-	-	-	16,672	17,968	19,487	21,528	23,764	26,563	28,607
28.50	1.1/8	-	-	-	17,205	18,497	19,971	22,027	24,344	26,651	29,195

SIZES		OVERALL LENGTH IN MM									
		300	315	325	350	375	400	425	450	475	500
MM	INCH	PRICE RS./PIECE									
29.00	-	-	-	-	17,690	19,007	20,511	22,589	24,924	27,212	29,856
29.50	-	-	-	-	18,176	19,487	20,998	23,127	25,453	27,824	30,513
30.00	1.3/16	-	-	-	18,696	20,009	21,517	23,652	26,027	28,413	31,112
31.00	1.1/4	-	-	-	19,191	20,509	22,040	24,236	26,703	29,155	31,990
32.00	-	-	-	-	19,332	20,913	23,127	25,416	27,993	30,513	33,475
33.00	1.5/16	-	-	-	-	-	24,124	26,547	29,242	31,873	34,936
34.00	-	-	-	-	-	-	25,178	27,672	30,497	33,256	36,438
35.00	1.3/8	-	-	-	-	-	26,279	28,889	31,753	34,648	37,926
36.00	-	-	-	-	-	-	27,317	29,985	32,977	35,984	39,409
37.00	1.7/16	-	-	-	-	-	28,353	31,112	34,230	37,334	40,845
38.00	1.1/2	-	-	-	-	-	29,435	32,353	35,559	38,732	42,397
39.00	-	-	-	-	-	-	30,514	33,767	36,693	39,965	43,662
40.00	-	-	-	-	-	-	31,786	34,737	37,982	41,315	45,097
41.00	1.5/8	-	-	-	-	-	-	-	-	-	46,590
42.00	-	-	-	-	-	-	-	-	-	-	48,663
43.00	-	-	-	-	-	-	-	-	-	-	50,817
44.00	-	-	-	-	-	-	-	-	-	-	52,941
45.00	1.3/4	-	-	-	-	-	-	-	-	-	55,098
46.00	1.13/16	-	-	-	-	-	-	-	-	-	57,428
47.00	-	-	-	-	-	-	-	-	-	-	59,749
48.00	1.7/8	-	-	-	-	-	-	-	-	-	62,080
49.00	1.15/16	-	-	-	-	-	-	-	-	-	64,364
50.00	-	-	-	-	-	-	-	-	-	-	66,959

MASONRY DRILLS - CARBIDE TIPPED
(GROUND FLUTED & BRIGHT PLATED)



SIZES		FLUTE LENGTH	OVERALL LENGTH	PRICE RS. / PIECE
MM	INCH			STD DRILLS
3	1/8"	40	76	54
4	5/32"	45	85	62
5	3/16"	45	90	68
5.5	7/32"	45	90	83
6	15/64"	60	110	88
6.5	1/4"	60	110	88
7	9/32"	60	110	166
8	5/16"	80	120	144
9	11/32"	80	120	168
10	3/8"	80	120	168
11	7/16"	115	160	234
12	15/32"	115	160	208
13	1/2"	115	160	208

HSS ENDMILLS

**HSS PARALLEL SHANK ENDMILLS
IS 6353 - 1991 & BS-122 (PART-1) 1953**

Dia		Price Each Rs.		Dia		Price Each Rs.		Dia		Price Each Rs.		Dia		Price Each Rs.	
MM	INCH	M2	M42	MM	INCH	M2	M42	MM	INCH	M2	M42	MM	INCH	M2	M42
3*	1/8	679	1,085	15*	-	1,278	2,047	27	-	2,793	4,465	40	-	6,665	10,662
4*	5/32	679	1,085	16*	5/8	1,286	2,057	28	1.1/8	3,260	5,214	41	1.5/8	6,665	10,662
5*	3/16	679	1,085	17	-	1,407	2,253	29	-	3,260	5,214	42	-	7,581	12,131
6*	1/4*	760	1,214	18*	-	1,560	2,498	30*	-	3,585	5,739	43	-	7,581	12,131
7	-	858	1,373	19*	3/4	1,560	2,498	32	1.1/4	3,910	6,257	45	1.3/4	8,494	13,587
8*	5/16	858	1,373	20*	13/16	1,728	2,763	33	-	4,330	6,928	46	-	8,494	13,587
9*	3/8*	858	1,373	21	-	1,944	3,115	34	1.3/8	4,722	7,554	47	1.7/8	9,367	14,986
10*	-	858	1,373	22*	7/8	1,960	3,135	35	-	4,722	7,554	48	-	9,367	14,986
11	7/16	858	1,373	23	-	2,129	3,405	36	-	5,148	8,238	49	-	9,367	14,986
12*	1/2*	887	1,419	24*	-	2,129	3,405	37	-	5,546	8,870	50	-	10,276	16,438
13	-	1,010	1,612	25*	1.0	2,285	3,652	38	-	5,914	9,460	-	-	-	-
14*	9/16	1,099	1,763	26	-	2,374	3,797	39	-	6,270	10,031	-	-	-	-

**HSS PARALLEL SHANK SLOT DRILLS
IS 6352 - 1991 & BS (PART - 1) 1953**

Dia		Price Each Rs.		Dia		Price Each Rs.		Dia		Price Each Rs.		Dia		Price Each Rs.	
MM	INCH	M2	M42	MM	INCH	M2	M42	MM	INCH	M2	M42	MM	INCH	M2	M42
3	1/8	827	1,324	14	9/16	1,286	2,057	26	-	3,485	5,578	43	-	8,019	12,831
4	5/32	827	1,324	15	-	1,449	2,321	30	-	4,280	6,847	44	-	8,019	12,831
5*	3/16	827	1,324	16	5/8	1,447	2,316	32	1.1/4	4,280	6,847	45	1.3/4	8,019	12,831
6*	1/4	887	1,421	18	-	1,780	2,845	34	1.3/8	5,148	8,238	46	-	8,903	14,244
7	-	887	1,421	20*	3/4	1,780	2,845	35	-	5,148	8,238	47	1.7/8	8,903	14,244
8*	5/16	887	1,421	21	13/16	2,078	3,323	36	-	5,526	8,842	48	-	8,903	14,244
9	3/8	887	1,421	22	7/8	2,078	3,323	38	1.1/2	5,962	9,537	49	-	9,764	15,624
10*	-	917	1,465	23	-	2,468	3,950	40	-	6,374	10,199	50	2.0	9,764	15,624
11	-	917	1,465	24	-	2,468	3,950	41	-	7,214	11,542	-	-	-	-
12	1/2	1,005	1,608	25	1.0	2,468	3,950	42	-	7,214	11,542	-	-	-	-

**HSS PARALLEL SHANK ENDMILLS - : LONG SERIES
IS 6353 - 1991**

Dia	Price Each Rs.		Dia	Price Each Rs.		Dia	Price Each Rs.		Dia	Price Each Rs.	
MM	M2	M42	MM	M2	M42	MM	M2	M42	MM	M2	M42
3	881	1,411	9	1,117	1,784	20	2,247	3,595	32	5,083	8,132
4	881	1,411	10*	1,117	1,784	22	2,549	4,077	33	5,630	9,007
5	881	1,411	12*	1,152	1,844	25	2,970	4,752	36	6,693	10,709
6	989	1,581	14	1,432	2,289	26	3,086	4,937	40	8,664	13,859
7	1,117	1,784	16	1,671	2,672	28	4,238	6,780	45	11,039	17,665
8	1,117	1,784	18	2,028	3,245	30	4,663	7,461	50	13,358	21,372

**HSS PARALLEL SHANK ROUGHING END MILLS -M42
4 FLUTES - COARSE PITCH - TO IS : 6353 -1991 / BS:122**

SIZE		PRICE RS. / PIECE	
MM	INCH	STANDARD SERIES	LONG SERIES
6	1/4	2,454	3,335
8	5/16	2,454	3,335
10	3/8	2,454	3,335
12	1/2	2,454	5,074
14	-	3,730	5,912
16	5/8	4,340	6,598
18	-	5,290	8,039
20	3/4	5,905	8,627
22	7/8	6,334	10,180
25	1	7,467	13,719
28	1.1/8	10,070	16,477
30	-	12,090	-

HSS REAMERS



REFERENCE STANDARDS

HSS HAND REAMERS WITH PARALLEL SHANK
HSS MACHINE REAMERS WITH TAPER SHANK
HSS CHUCKING REAMERS WITH PARALLEL SHANK
HSS CHUCKING REAMERS WITH TAPER SHANK

MM SIZE IS : 5444 - 1978
INCH SIZES BS 328 PART-4 1983
IS : 5445 - 1978
IS : 5446 - 1978
IS : 5447 - 1978

SIZE		PRICE Rs. /PIECE
DIAMETER		HAND REAMER LONG FLUTED MACHINE REAMER CHUCKING REAMER
MM	INCH	
4.00	-	1,173
(4.76)	3/16	1,173
4.50	-	1,173
5.00	-	1,173
(5.56)	7/32	1,173
6.00	-	1,366
(6.35)	1/4	1,366
7.00	-	1,366
(7.14)	9/32	1,366
(7.94)	5/16	1,556
8.00	-	1,556
(8.73)	11/32	1,634
9.00	-	1,634
(9.52)	3/8	1,776
10.00	-	1,969
(10.32)	13/32	1,969
11.00	-	2,205
(11.11)	7/16	2,205
(11.91)	15/32	2,299
12.00	-	2,299
(12.70)	1/2	2,377
13.00	-	2,899
(13.49)	17/32	2,899
14.00	-	2,899
(14.29)	9/16	2,899
15.00	-	2,916
(15.08)	19/32	2,916
(15.87)	5/8	2,916
16.00	-	2,916
(16.67)	21/32	3,367
17.00	-	3,367
(17.46)	11/16	3,367
18.00	-	3,603
(18.26)	23/32	3,823
19.00	-	3,823
(19.05)	3/4	3,823
20.00	-	4,274
(20.64)	13/16	4,357
21.00	-	4,825
22.00	-	4,825
(22.22)	7/8	4,825
23.00	-	5,645
(23.81)	15/16	6,250

SIZE		PRICE Rs. /PIECE
DIAMETER		HAND REAMER LONG FLUTED MACHINE REAMER CHUCKING REAMER
MM	INCH	
24.00	-	6,250
25.00	-	6,268
(25.40)	1	6,386
26.00	-	7,739
(26.99)	1.1/16	8,863
27.00	-	8,863
28.00	-	8,863
(28.57)	1.1/8	8,863
29.00	-	9,397
30.00	-	10,137
(30.16)	1.3/16	10,137
31.00	-	11,192
(31.75)	1.1/4	11,192
32.00	-	11,192
33.00	-	12,718
(33.34)	1.5/16	12,718
34.00	-	14,276
(34.92)	1.3/8	15,617
35.00	-	15,617
36.00	-	15,617
(36.51)	1.7/16	15,747
37.00	-	17,153
38.00	-	17,153
(38.10)	1.1/2	17,153
39.00	-	18,966
(39.69)	1.9/16	20,708
40.00	-	20,708
41.00	-	20,908
(41.27)	1.5/8	20,908
42.00	-	24,624
(42.86)	1.11/16	24,624
43.00	-	24,624
44.00	-	24,624
(44.45)	1.3/4	24,624
45.00	-	28,849
46.00	-	28,849
47.00	-	31,162
(47.62)	1.7/8	33,468
48.00	-	33,468
49.00	-	33,468
(49.21)	1.15/16	33,468
50.00	-	33,468
(50.80)	2	33,468

HSS TAPER PIN REAMERS (TAPER 1 IN 50)

HAND - IS : 5881 -1984

MACHINE - IS : 5918 - 1984

DIA	PRICE Rs. /PIECE	
MM	HAND	MACHINE
6	2,540	2,540
8	3,438	3,438
10	3,802	3,802
12	4,600	4,600
14	5,178	5,178

DIA	PRICE Rs. /PIECE	
MM	HAND	MACHINE
16	5,764	5,764
20	8,966	8,966
25	9,501	9,501
30	12,798	12,798
32	14,038	14,038

DIA	PRICE Rs. /PIECE	
MM	HAND	MACHINE
40	25,131	25,131
50	43,556	43,556
-	-	-
-	-	-
-	-	-

HSS TAPER PIN REAMERS (TAPER 1 IN 48)

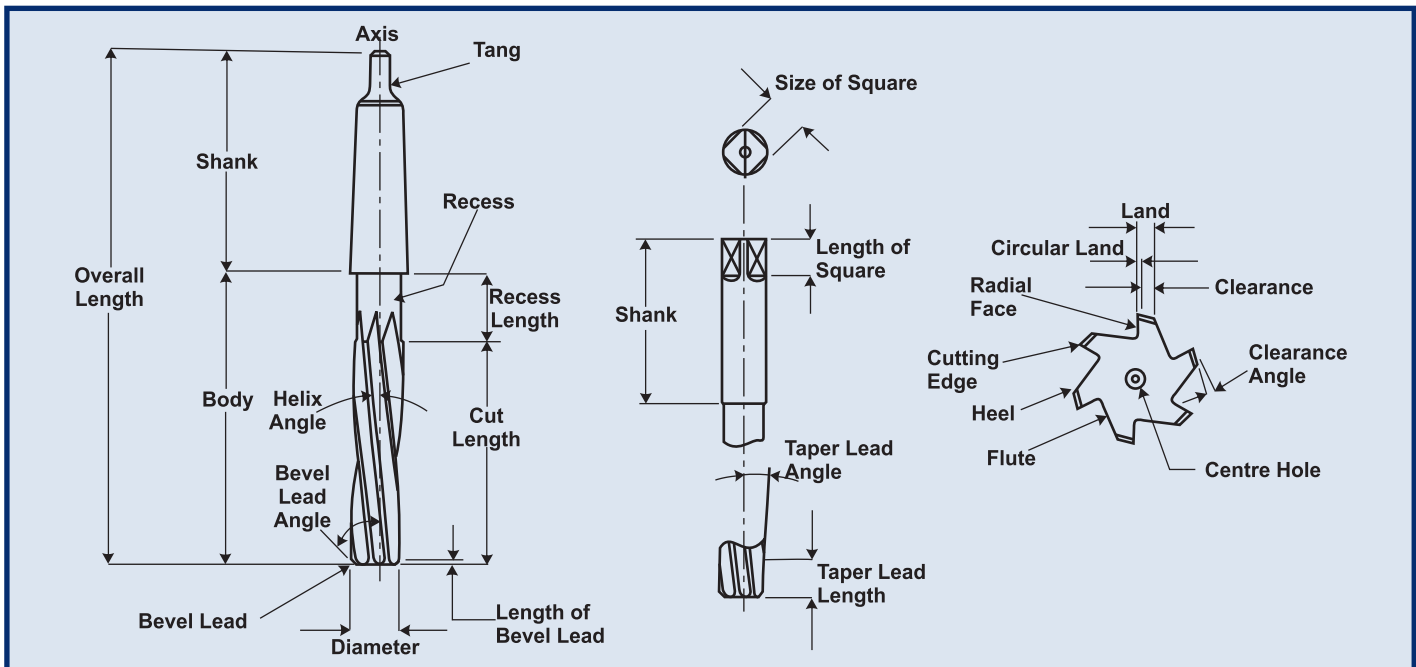
HAND/MACHINE - BS 328 (PART 4) 1983

DIA	PRICE Rs. /PIECE	
MM	HAND	MACHINE
1/4	2,363	2,363
9/32	2,584	2,584
5/16	2,871	2,871
11/32	3,233	3,233

DIA	PRICE Rs. /PIECE	
MM	HAND	MACHINE
3/8	3,300	3,300
13/32	3,694	3,694
7/16	3,802	3,802
1/2	4,314	4,314

DIA	PRICE Rs. /PIECE	
MM	HAND	MACHINE
9/16	4,977	4,977
5/8	5,546	5,546
3/4	6,866	6,984
7/8	8,627	8,627

Reamer Terms - General Features



**HIGH SPEED STEEL
TAPER SHANK CORE DRILLS**



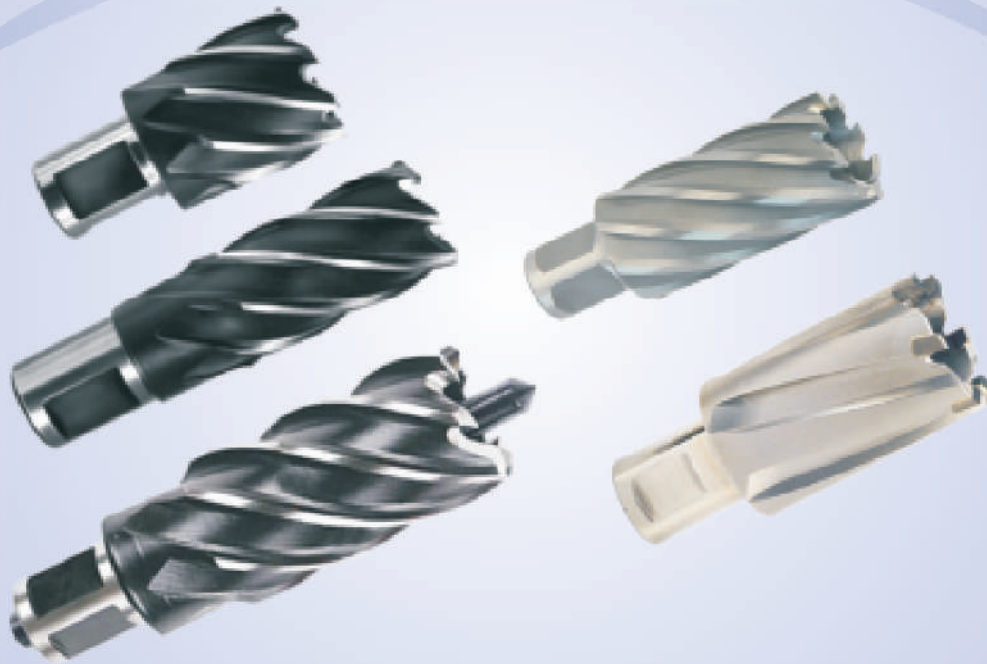
Specifications conform to : IS 5366 - 1978, ISO 7079 - 1981
DIN 343 - 1981, BS 328 - 1959
Dimensions in mm / Inch

Size		Price Rs. Piece
mm	inch	
14.00		2,428
14.29	9/16	2,498
15.00		2,606
15.08	19/32	2,606
15.87	5/8	2,632
16.00		2,632
16.67	21/32	2,808
17.00		2,808
17.46	11/16	3,033
18.00		3,261
18.26	23/32	3,261
19.00		3,728
19.05	3/4	3,728
19.84	25/32	3,742
20.00		3,742
20.64	13/16	4,004
21.00		4,004
21.43	27/32	4,231
22.00		4,231
22.22	7/8	4,489
23.00		4,753
23.02	29/32	4,753
23.81	15/16	5,188
24.00		5,421
24.61	31/32	5,421
25.00		6,300
25.40	1	6,300
26.00		6,797
26.19	1.1/32	6,797
26.99	1.1/16	7,504
27.00		7,504
27.78	1.3/32	7,788
28.00		8,251
28.57	1.1/8	8,253
29.00	1.5/32	8,628
29.37		8,628
30.00	1.3/16	9,175
30.16	1.7/32	9,175
30.96		9,522
31.00		10,707

Size		Price Rs. Piece
mm	inch	
31.75	1.1/4	11,175
32.00		12,246
32.54	1.9/32	12,246
33.00		12,500
33.34	1.5/16	12,500
34.00		13,632
34.13	1.11/32	13,632
34.92	1.3/8	14,484
35.00		14,484
35.72	1.13/32	15,578
36.00		15,578
36.51	1.7/16	16,434
37.00		16,434
37.31	1.15/32	16,900
38.00		18,079
38.10	1.1/2	18,079
39.00		19,827
39.69	1.9/16	19,827
40.00		19,827
41.00		21,852
41.27	1.5/8	21,852
42.00		22,501
42.07	1.21/32	22,501
42.86	1.11/16	23,222
43.00		23,222
44.00		24,547
44.45	1.3/4	24,547
45.00		25,414
45.24	1.25/32	25,414
46.00		26,356
46.04	1.13/16	26,356
47.00		27,387
47.62	1.7/8	28,800
48.00		28,800
49.00		30,753
49.21	1.15/16	30,753
50.00		33,093
50.80	2	36,590
51.00		36,908
52.00		40,647

Size		Price Rs. Piece
mm	inch	
52.39	2.1/16	40,647
53.00		47,481
53.97	2.1/8	47,481
54.00		47,481
55.00		49,768
55.56	2.3/16	49,768
56.00		51,876
57.00		51,876
57.15	2.1/4	51,876
58.00		56,689
58.74	2.5/16	56,689
59.00		57,737
60.00		57,737
60.32	2.3/8	57,737
61.00		61,532
61.91	2.7/16	61,532
62.00		61,532
63.00		67,720
63.50	2.1/2	67,720
64.00		73,944
65.00		73,944
65.09	2.9/16	73,944
66.00		77,528
66.67	2.5/8	77,528
67.00		80,764
68.00		84,687
68.26	2.11/16	84,687
69.00		88,823
69.85	2.3/4	90,488
70.00		90,488
71.00		92,281
71.44	2.13/16	92,281
72.00		96,498
73.00		100,076
73.02	2.7/8	100,076
74.00		103,860
74.61	2.15/16	103,860
75.00		107,688
76.00		112,859
76.20	3	112,859

Annular Cutters (HSS & TCT)



SIZE RANGE :

- Size : 11.0 mm To 60.0 mm
- Depth of Cut : 50.00 mm
- Special size / shank on request
- Coating on request

FEATURE :

- | | | |
|-------------------------------|------|--|
| Reduced Torque and thrust | ———— | Due to peripheral cutting |
| Minimizes kerf area | ———— | Unique center free design |
| Reducing HP and feed pressure | ———— | Alternating tooth geometry |
| Faster feed, less friction | ———— | Evenly distributes chip load to multiple cutting edges |
| Longer tool life | ———— | Special Heat treatment / surface treatment |
| Single pass-cutting, | ———— | No pre drilling required |
| High accuracy | ———— | Less Drifting- Precise Center locating |
| Smooth hole finish | ———— | Evenly distributes chip load to multiple cutting edges |

ANNULAR CUTTER



SIZE DIA. MM	HSS M2 - PRICE RS. / PIECE		HSS M42	TCT
	LENGTH 25 MM	LENGTH 50 MM	LENGTH 50 MM	LENGTH 50 MM
12-13	-	-	-	3,876
14-15	-	-	-	3,876
16*-17	1,905	2395	3,112	3,876
18-19	1,987	2486	3,232	3,876
20*-21	2,088	2587	3,364	3,876
22*-23	2,486	2944	3,827	3,998
24*-25	2,578	3117	4,053	3,998
26*-27	2,730	3291	4,277	4,514
28-29	2,944	3585	4,661	4,514
30*-31	3,087	3765	4,896	4,514
32*-33	3,229	4023	5,231	5,360
34-35	3,402	4289	5,574	5,360
36-37	3,860	4859	6,316	6,096
38-39	4,135	5154	6,701	6,096
40-41	4,533	5644	7,335	6,096
42-43	4,900	6102	7,931	7,445
44-45	5,378	6703	8,713	7,445
46-47	5,786	7202	9,361	8,034
48-49	6,102	7608	9,892	8,034
50-51	6,520	8586	11,162	8,426
52	6,947	8821	11,468	9,026
53	7,161	9106	11,838	9,407
54	7,385	9412	12,235	9,591
55	7,564	9666	12,566	9,825
56	7,832	9961	12,950	10,253
57	8,118	10201	13,262	10,572
58	8,322	10481	13,625	10,706
59	8,577	10715	13,930	10,891
60	8,837	11021	14,327	11,117

EJECTOR PIN

SIZE	TYPE	PRICE RS./ PEICE
6.34 X 73	CL 25	289
6.34 X 98	CL 50	390

HSS TAPS



PRODUCT RANGE

- Types** : Hand & Machine, Straight Flute, Spiral, Spiral Point, Nib, Ring Taps
Range : 2.0 mm to 140.0 mm
Grade of Steel : M2, M35 & M42
Product Standard : ISO 529, IS 6175, BS 949, DIN, ANSI, JIS
Thread Form : Metric, BSW, BSF, BA, BSP, UNF UNC, NPT...

APPLICATIONS

- Steel
- Stainless Steel
- Forged Steel
- Titanium & Nickel Alloy
- Aluminium

INDUSTRIES

- Automotive & Auto components
- Aerospace
- Heavy Engineering
- Power & Energy
- Railways
- Electronics & Electrical

HSS TAPS

HSS GROUND THREAD HAND TAPS - COARSE PITCH											IS 6175 - PART 1,2&3 -1992			
HSS GROUND THREAD MACHINE TAPS - COARSE PITCH											IS 6175 - PART 4 -1991			
HSS GROUND THREAD NUT TAPS - COARSE PITCH											IS 6175 - PART 5 -1992			
Code	Size	Hand & Short Machine Taps									Long Shank Machine Taps			Nut Taps
		IS 6175 Part 1			IS 6175 - Part 2			IS 6175 - Part 3			IS 6175 - Part 4			IS 6175 Part 5
		WTC_M	WTCPM	WHC_M	WHCPM	WHCTM	WUC_M	WUCPM	WUCTM	WMC_M	WMCPM	WMCTM	WVCNM	
		Str. Flute	Spiral Point	Str. Flute	Spiral Point	Spiral Flute	Str. Flute	Spiral Point	Spiral Flute	Type A,C,D	Type B	Spiral	Nut Tap	
Price Each Rs.														
010253A	M1.0 x 0.25	1,039	-	-	-	-	-	-	-	-	-	-	-	-
110253A	M1.1 x 0.25	1,039	-	-	-	-	-	-	-	-	-	-	-	-
120253A	M1.2 x 0.25	1,039	-	-	-	-	-	-	-	-	-	-	-	-
140303A	M1.4 x 0.30	883	-	-	-	-	-	-	-	-	-	-	-	-
160353A	M1.6 x 0.35	883	-	-	-	-	-	-	-	-	-	-	-	-
180353A	M1.8 x 0.35	883	-	-	-	-	-	-	-	-	-	-	-	-
020403A	M2.0 x 0.40	635	741	-	-	-	-	-	-	-	-	-	-	-
220453A	M2.2 x 0.45	635	741	-	-	-	-	-	-	-	-	-	-	-
230453A	M2.3 x 0.40	635	741	-	-	-	-	-	-	-	-	-	-	-
250453A	M2.5 x 0.45	635	741	-	-	-	-	-	-	-	-	-	-	-
260453A	M2.6 x 0.45	635	741	-	-	-	-	-	-	-	-	-	-	-
030503A	M3.0 x 0.50	-	-	382	479	521	429	508	589	841	992	697	-	-
350603A	M3.5 x 0.60	-	-	382	479	521	429	508	589	841	992	697	-	-
040703A	M4.0 x 0.70	-	-	382	479	521	429	508	589	841	992	697	-	-
450753A	M4.5 x 0.75	-	-	408	505	547	456	539	608	618	736	741	-	-
050803A	M5.0 x 0.80	-	-	408	505	547	456	539	608	601	736	741	-	-
061003A	M6.0 x 1.00	-	-	408	505	557	456	539	618	644	785	810	841	-
081253A	M8.0 x 1.25	-	-	491	585	617	547	665	762	701	855	880	952	-
101503A	M10 x 1.50	-	-	591	730	776	628	771	867	898	1,075	1,099	1264	-
121753A	M12 x 1.75	-	-	-	-	-	928	1,120	1,234	1,275	1,510	1,588	1943	-
142003A	M14 x 2.00	-	-	-	-	-	1,354	1,637	1,874	1,854	2,194	2,410	2690	-
162003A	M16 x 2.00	-	-	-	-	-	1,354	1,637	1,874	1,854	2,194	2,410	2690	-
182503A	M18 x 2.50	-	-	-	-	-	2,047	2,456	2,729	2,720	3,205	3,456	4110	-
202503A	M20 x 2.50	-	-	-	-	-	2,615	3,133	3,639	3,349	3,939	4,118	5500	-
222503A	M22 x 2.50	-	-	-	-	-	2,801	3,358	3,771	3,745	4,414	4,118	5571	-
243003A	M24 x 3.00	-	-	-	-	-	3,119	3,748	4,097	4,060	4,789	5,202	6324	-
253003A	M25 x 3.00	-	-	-	-	-	3,810	4,959	-	5,092	-	-	7564	-
273003A	M27 x 3.00	-	-	-	-	-	4,730	5,675	6,115	5,846	-	-	9713	-
303503A	M30 x 3.50	-	-	-	-	-	5,290	6,354	6,835	6,720	-	-	12240	-
333503A	M33 x 3.50	-	-	-	-	-	6,447	8,347	9,209	7,890	-	-	13499	-
364003A	M36 x 4.00	-	-	-	-	-	8,973	10,768	11,609	11,174	-	-	17479	-
394003A	M39 x 4.00	-	-	-	-	-	10,545	12,638	-	12,416	-	-	20826	-
424503A	M42 x 4.50	-	-	-	-	-	12,284	14,735	-	16,016	-	-	24807	-
454503A	M45 x 4.50	-	-	-	-	-	16,544	19,852	-	18,997	-	-	29920	-
485003A	M48 x 5.00	-	-	-	-	-	17,644	21,171	-	21,389	-	-	34808	-
525003A	M52 x 5.00	-	-	-	-	-	22,148	26,572	-	24,752	-	-	-	-
565503A	M56 x 5.50	-	-	-	-	-	31,520	37,818	-	34,657	-	-	-	-
605503A	M60 x 5.50	-	-	-	-	-	33,221	39,860	-	37,587	-	-	-	-
646003A	M64 x 6.00	-	-	-	-	-	34,944	41,935	-	42,422	-	-	-	-
686003A	M68 x 6.00	-	-	-	-	-	43,590	52,308	-	59,107	-	-	-	-
726003A	M72 x 6.00	-	-	-	-	-	58,508	-	-	-	-	-	-	-
766003A	M76 x 6.00	-	-	-	-	-	71,555	-	-	-	-	-	-	-
806003A	M80 x 6.00	-	-	-	-	-	86,432	-	-	-	-	-	-	-
856003A	M85 x 6.00	-	-	-	-	-	106,742	-	-	-	-	-	-	-
906003A	M90 x 6.00	-	-	-	-	-	133,223	-	-	-	-	-	-	-
956003A	M95 x 6.00	-	-	-	-	-	167,735	-	-	-	-	-	-	-
100603A	M100 x 6.00	-	-	-	-	-	207,269	-	-	-	-	-	-	-

A set of Non-serial taps consists of Taper, Second, Bottoming
 IS 6175 Part 1: Design will be supplied upto and including 2.6 mm
 IS 6175 Part 2: Design will be supplied from 3 mm to 10 mm including 10 mm
 IS 6175 Part 3: Design will be supplied above 10 mm.

Type"A" - 5 Deg. Taper with long taper lead
 Type"B" - 10 Deg. Taper lead angle with spiral point
 Type"C" - 20 Deg. Taper angle with short lead
 Type"D" - 10 Deg. Taper angle without spiral point

Items marked with * are stockable items. Remaining all items required minimum order value of Rs. 15000/- NETT OR
 1mm to 6mm 100 Nos. 7mm to 16mm 50 Nos. 18mm to 24mm 10 Nos. 26mm to 36 mm 05 Nos. & corresponding inch size.
 The tap sizes up to M6 will be supplied with male centers on both sides. Above M6 taps will be supplied with female centers on both sides.
 Serial Taps at 5% extra M35 Material 35% extra Left Hand Taps at 25% extra M42 Material 55% extra

HSS TAPS

HSS GROUND THREAD HAND TAPS - FINE PITCH											IS 6175 - PART 1,2&3 -1992	
HSS GROUND THREAD MACHINE TAPS - FINE PITCH											IS 6175 - PART 4 -1991	
HSS GROUND THREAD NUT TAPS - FINE PITCH											IS 6175 - PART 5 -1992	
Hand & Short Machine Taps									Long Shank Machine Taps		Nut Taps	
Code	Size	IS 6175 Part 1	IS 6175 - Part 2			IS 6175 - Part 3			IS 6175 - Part 4		IS 6175 Part 5	
		WTF_M	WHF_M	WHFPM	WHFTM	WUF_M	WUFPM	WUFTM	WMF_M	WMF_M	WVFNM	
		Str. Flute	Str. Flute	Spiral Point	Spiral Flute	Str. Flute	Spiral Point	Spiral Flute	Type A,C,D	Type B	Nut Tap	
Price Each Rs.												
010023A	M1.0 x 0.20	1091	-	-	-	-	-	-	-	-	-	
110203A	M1.1 x 0.20	1091	-	-	-	-	-	-	-	-	-	
140203A	M1.4 x 0.20	991	-	-	-	-	-	-	-	-	-	
160203A	M1.6 x 0.20	991	-	-	-	-	-	-	-	-	-	
180203A	M1.8 x 0.20	991	-	-	-	-	-	-	-	-	-	
020253A	M2.0 x 0.25	838	-	-	-	-	-	-	-	-	-	
222503A	M2.2 x 0.25	838	-	-	-	-	-	-	-	-	-	
250303A	M2.5 x 0.30	838	-	-	-	-	-	-	-	-	-	
260303A	M2.6 x 0.30	838	-	-	-	-	-	-	-	-	-	
030353A	M3.0 x 0.35		549	683	739	570	652	728	726	923	-	
350353A	M3.5 x 0.35		549	683	739	570	652	728	773	860	-	
040503A	M4.0 x 0.50		570	683	692	570	652	728	726	825	-	
0450503A	M4.5 x 0.50		531	657	713	578	669	728	1,146	1,282	-	
050503A	M5.0 x 0.50		558	665	739	581	669	728	734	860	-	
060753A	M6.0 x 0.75		558	665	707	581	702	728	734	860	991	
070753A	M7.0 x 0.75		642	-	862	663	800	829	841	991	1,216	
080753A	M8.0 x 0.75		642	-	862	663	800	829	841	991	1,107	
081003A	M8.0 x 1.00		581	697	752	642	724	829	776	920	1,107	
091003A	M9.0 x 1.00		720	917	894	713	823	936	996	1,174	1,107	
101003A	M10 x 1.00		654	802	894	713	823	936	970	1,081	1,453	
101253A	M10 x 1.25		654	802	861	713	823	936	970	1,094	1,453	
121003A	M12 x 1.00					1,091	1,235	1,456	1,397	1,643	2,274	
121253A	M12 x 1.25					1,091	1,235	1,396	1,397	1,643	2,274	
121503A	M12 x 1.50					1,091	1,235	1,396	1,397	1,643	2,274	
141003A	M14 x 1.00					1,403	1,681	1,999	1,803	2,135	3,392	
141253A	M14 x 1.25					1,432	1,727	1,957	1,839	2,171	3,392	
141503A	M14 x 1.50					1,359	1,669	1,865	1,729	2,042	3,392	
161003A	M16 x 1.00					1,400	1,724	1,957	1,942	2,295	3,392	
161503A	M16 x 1.50					1,360	1,669	1,865	1,729	2,194	3,392	
181003A	M18 x 1.00					2,556	2,856	3,044	3,172	3,742	4,801	
181503A	M18 x 1.50					2,332	2,608	3,044	2,910	3,702	4,801	
182003A	M18 x 2.00					2,556	2,856	3,044	3,172	3,742	4,801	
201503A	M20 x 1.50					2,950	3,293	3,886	3,798	4,486	6,160	
202003A	M20 x 2.00					2,937	3,798	3,886	4,184	5,309	6,160	
221503A	M22 x 1.50					3,219	3,590	4,175	3,941	4,655	6,540	
222003A	M22 x 2.00					3,462	4,165	4,175	4,248	5,384	6,540	
241503A	M24 x 1.50					3,521	3,929	4,621	4,399	5,192	7,772	
242003A	M24 x 2.00					3,515	4,527	4,621	4,636	5,881	7,772	
251503A	M25 x 1.50					3,769	4,816	-	5,609	6,645	8,738	
252003A	M25 x 2.00					3,731	4,816	-	5,609	6,645	-	
261503A	M26 x 1.50					3,929	4,922	-	5,766	6,805	-	
262003A	M26 x 2.00					3,929	4,922	-	5,766	6,805	-	
271503A	M27 x 1.50					5,248	6,332	-	6,914	8,409	-	
272003A	M27 x 2.00					5,248	6,332	-	6,914	8,409	-	
281503A	M28 x 1.50					5,266	6,586	-	7,452	10,235	-	
282003A	M28 x 2.00					5,266	6,586	-	7,452	10,235	-	
301503A	M30 x 1.50					5,908	7,102	-	7,775	10,082	-	
302003A	M30 x 2.00					5,908	7,110	-	7,775	10,082	-	
303003A	M30 x 3.00					5,920	7,110	-	7,775	10,082	-	
321503A	M32 x 1.50					6,293	7,794	-	8,587	11,109	-	
322003A	M32 x 2.00					6,293	7,794	-	8,587	11,109	-	

HSS TAPS

Hand & Short Machine Taps						Long Shank Machine Taps			Nut Taps		
Code	Size	IS 6175 Part 1	IS 6175 - Part 2		IS 6175 - Part 3			IS 6175 - Part 4		IS 6175 Part 5	
		WTF_M	WHF_M	WHFPM	WHFTM	WUF_M	WUFPM	WUFTM	WMF_M	WMF_M	WVFNM
		Str. Flute	Str. Flute	Spiral Point	Spiral Flute	Str. Flute	Spiral Point	Spiral Flute	Type A,C,D	Type B	Nut Tap
Price Each Rs.											
331503A	M33 x 1.50	-	-	-	-	7,221	9,032	-	9,401	11,721	-
332003A	M33 x 2.00	-	-	-	-	7,221	9,032	-	9,401	11,721	-
333003A	M33 x 3.00	-	-	-	-	7,221	9,032	-	9,401	11,721	-
351503A	M35 x 1.50	-	-	-	-	10,035	12,492	-	12,947	16,313	-
361503A	M36 x 1.50	-	-	-	-	10,031	12,492	-	12,947	16,313	-
362003A	M36 x 2.00	-	-	-	-	10,031	12,492	-	12,947	16,313	-
363003A	M36 x 3.00	-	-	-	-	10,018	12,492	-	12,947	16,313	-
391503A	M39 x 1.50	-	-	-	-	12,500	-	-	-	-	-
392003A	M39 x 2.00	-	-	-	-	12,500	-	-	-	-	-
393003A	M39 x 3.00	-	-	-	-	12,500	-	-	-	-	-
421503A	M42 x 1.50	-	-	-	-	13,894	-	-	-	-	-
422003A	M42 x 2.00	-	-	-	-	13,894	-	-	-	-	-
423003A	M42 x 3.00	-	-	-	-	13,894	-	-	-	-	-
424003A	M42 x 4.00	-	-	-	-	13,894	-	-	-	-	-
451503A	M45 x 1.50	-	-	-	-	19,260	-	-	-	-	-
452003A	M45 x 2.00	-	-	-	-	19,260	-	-	-	-	-
453003A	M45 x 3.00	-	-	-	-	19,260	-	-	-	-	-
454003A	M45 x 4.00	-	-	-	-	19,260	-	-	-	-	-
481503A	M48 x 1.50	-	-	-	-	18,712	-	-	-	-	-
482003A	M48 x 2.00	-	-	-	-	18,712	-	-	-	-	-
483003A	M48 x 3.00	-	-	-	-	18,712	-	-	-	-	-
484003A	M48 x 4.00	-	-	-	-	18,712	-	-	-	-	-
501503A	M50 x 1.50	-	-	-	-	22,123	-	-	-	-	-
502003A	M50 x 2.00	-	-	-	-	22,123	-	-	-	-	-
503003A	M50 x 3.00	-	-	-	-	22,123	-	-	-	-	-
521503A	M52 x 1.50	-	-	-	-	24,936	-	-	-	-	-
522003A	M52 x 2.00	-	-	-	-	24,936	-	-	-	-	-
523003A	M52 x 3.00	-	-	-	-	24,936	-	-	-	-	-
524003A	M52 x 4.00	-	-	-	-	24,936	-	-	-	-	-
561503A	M56 x 1.50	-	-	-	-	32,535	-	-	-	-	-
562003A	M56 x 2.00	-	-	-	-	32,535	-	-	-	-	-
563003A	M56 x 3.00	-	-	-	-	32,535	-	-	-	-	-
564003A	M56 x 4.00	-	-	-	-	32,535	-	-	-	-	-
601503A	M60 x 1.50	-	-	-	-	36,300	-	-	-	-	-
602003A	M60 x 2.00	-	-	-	-	36,300	-	-	-	-	-
603003A	M60 x 3.00	-	-	-	-	37,120	-	-	-	-	-
604003A	M60 x 4.00	-	-	-	-	37,120	-	-	-	-	-
641503A	M64 x 1.50	-	-	-	-	38,675	-	-	-	-	-
642003A	M64 x 2.00	-	-	-	-	38,675	-	-	-	-	-
643003A	M64 x 3.00	-	-	-	-	39,371	-	-	-	-	-
644003A	M64 x 4.00	-	-	-	-	39,371	-	-	-	-	-
681503A	M68 x 1.50	-	-	-	-	48,972	-	-	-	-	-
682003A	M68 x 2.00	-	-	-	-	48,972	-	-	-	-	-
683003A	M68 x 3.00	-	-	-	-	36,460	-	-	-	-	-
684003A	M68 x 4.00	-	-	-	-	49,598	-	-	-	-	-
724003A	M72 x 4.00	-	-	-	-	54,604	-	-	-	-	-

A set of Non-serial taps consists of Taper, Bottoming
 IS 6175 Part 1: Design will be supplied upto and including 2.6 mm
 IS 6175 Part 2: Design will be supplied from 3 mm to 10 mm including 10 mm
 IS 6175 Part 3: Design will be supplied above 10 mm.

Type"A" - 5 Deg. Taper with long taper lead
 Type"B" - 10 Deg. Taper lead angle with spiral point
 Type"C" - 20 Deg. Taper angle with short lead
 Type"D" - 10 Deg. Taper angle without spiral point

Serial Taps at 5% extra M35 Material 35% extra
 Left Hand Taps at 25% extra. M42 Material 55% extra
 The tap sizes up to M6 will be supplied with male centers on both sides. Above M6 taps will be supplied with female centers on both sides.

Items marked with * are stockable items. Remaining all items required minimum order value of Rs. 15000/- Nett OR
 1mm to 6mm 100 Nos. 7mm to 16mm 50 Nos. 18mm to 24mm 10 Nos. 26mm to 36 mm 05 Nos.

HSS HAND TAPS - BSW(WTK_) & BSF (WTL_)			BS949 (Part 1) - 1992			
Part Code		Size	Straight Flute	Spiral Point	Spiral flute	Nut taps
BSW(WTK_)	BSF(WTL_)					
I018406A*	-	1/8"	398	479	563	-
I316246A*	I316326A	3/16"	398	500	538	-
I014206A*	I014266A	1/4"	417	500	594	871
I516186A*	I516226A	5/16"	467	587	623	950
I038166A*	I038206A	3/8"	570	702	767	1,154
I716146A*	I716186A	7/16"	734	909	1,015	1,555
I012126A*	I012166A	1/2"	933	1,120	1,231	1,936
I916126A	I916166A	9/16"	1,359	1,637	1,894	2,690
I058116A*	I058146A	5/8"	1,359	1,637	1,894	2,690
1116116A	1116146A	11/16"	1,985	2,448	2,673	3,459
I034106A*	I034126A	3/4"	2,063	2,484	2,748	4,118
I078096A	I078116A	7/8"	2,852	3,416	3,771	5,568
I100086A*	I100106A	1"	3,574	4,294	4,536	7,256
I118076A	I118096A	1.1/8"	4,801	5,761	-	9,771
I114076A*	I114096A	1.1/4"	5,788	6,946	-	14,533
I138066A	I138086A	1.3/8"	7,466	8,959	-	17,434
I112066A	I112086A	1.1/2"	8,973	10,760	-	-

HSS HAND TAPS - UNC(WTG_) & UNF(WTJ_)			BS949 (Part 1) - 1992			
Part Code		Size	Straight Flute	Spiral Point	Spiral flute	Nut taps
UNC(WTG_)	UNF(WTJ_)					
-	N000806A	No 0	933	-	-	-
N001646A	N001726A	No 1	933	-	-	-
N002566A	N002646A	No 2	657	-	-	-
N004406A	N004486A	No 4	447	-	-	-
N005406A	N005446A	No 5	447	539	538	-
N006326A	N006406A	No 6	447	539	538	-
N008326A	N008366A	No 8	447	539	538	-
N010246A	N010326A	No 10	447	539	538	-
N012246A	N012286A	No 12	552	657	578	-
I018286A	I018406A	1/8"	398	479	563	-
I316246A	I316326A	3/16"	398	500	538	-
I014206A*	I014286A	1/4"	413	508	594	870
I516186A*	I516246A	5/16"	468	587	624	950
I038166A*	I038246A	3/8"	570	702	767	1,154
I716146A	I716206A	7/16"	734	909	1,015	1,553
I012136A*	I012206A	1/2"	933	1,120	1,231	1,938
I916126A	I916186A	9/16"	1,359	1,637	1,895	2,690
I058116A*	I058186A*	5/8"	1,359	1,637	1,895	2,690
1116116A	1116116A	11/16"	1,985	2,447	2,675	3,457
I034106A*	I034166A	3/4"	2,063	2,484	2,748	4,117
I078096A	I078146A	7/8"	2,852	3,416	3,771	5,568
I100086A*	I100126A*	1"	3,574	4,294	4,536	7,256
I118076A	I118126A	1.1/8"	4,801	5,758	-	9,771
I114076A	I114126A	1.1/4"	5,787	6,943	-	14,532
I138066A	I138126A	1.3/8"	7,466	8,960	-	17,434
I112066A	I112126A	1.1/2"	8,973	10,758	-	-

• Serial Taps at 5% extra / Left Hand Taps at 25% extra

• M35 Material 35% extra / M42 Material 55% extra

HSS HAND TAPS - BSCy (Code : WHQ_)				BS949 (Part II) - 1951		
Code	Size	Straight flute	Code	Size	Straight flute	
Price Each Rs.						
N11SWG6A	14 Swg	724	I516306A	5/16"	618	
N10SWG6A	10 Swg	384	I716266A	7/16"	932	
N09SWG6A	9 Swg	384	I012266A	1/2"	1,165	
I532326A	5/32"	450	I916206A	9/16"	1,848	
I316326A	3/16"	450	I100246A	1"	3,664	
I732266A	7/32"	482	O167096A	1.370"	7,718	
I014266A	1/4"	508	O137596A	1.375"	7,718	

- The manufacturing range of BSCy taps is 14 Swg upwards.
- M35 Material 35% extra • M42 Material 55% extra

HSS HAND TAPS - BA (Code : WTM_)				BS949 (Part 1) - 1992			
Code	Size	Straight flute	Spiral point	Code	Size	Straight flute	Spiral point
Price Each Rs.							
N0BA106A	No. 0	492	589	N8BA436A	No. 8	805	776
N1BA906A	No. 1	492	589	10BA356A	No. 10	962	1,118
N2BA816A	No. 2	435	532	11BA316A	No. 11	1,491	1,791
N3BA736A	No. 3	435	532	12BA286A	No. 12	1,491	1,791
N4BA666A	No. 4	435	532	13BA256A	No. 13	1,564	-
N5BA596A	No. 5	435	532	14BA236A	No. 14	1,564	-
N6BA536A	No. 6	479	532	-	-	-	-

- All the tap sizes will be supplied with male centers on both sides.

HSS PIPE TAPS				BS949 (Part II) - 1969			
Parallel Thread				Taper Thread			
Code	Size	WHP_	NPS	WHU_	WHR_	WHS_	WHT_
		BSP		NPSF	BSPT	NPT	NPTF
Price Each Rs.							
I018286A	1/8"	615	726	874	897	920	964
I014196A	1/4"	958	1,259	1,536	1,564	1,609	1,813
I038196A	3/8"	1,440	1,614	1,948	2,010	2,044	2,364
I012146A	1/2"	2,102	2,348	2,822	3,009	3,074	3,456
I058146A	5/8"	2,384	-	-	-	-	-
I034146A	3/4"	3,140	3,456	4,129	4,461	4,554	5,097
I078146A	7/8"	3,987	-	-	-	-	-
I001116A	1"	4,953	5,837	6,984	6,936	7,111	7,942
I114116A	1.1/4"	7,638	9,022	10,826	9,927	10,154	11,706
I112116A	1.1/2"	9,549	11,253	13,496	12,143	12,597	-
I134116A	1.3/4"	11,943	14,035	16,835	-	-	-
I200116A	2"	17,429	20,112	24,133	22,235	22,768	-
I214116A	2.1/4"	29,730	-	-	-	-	-
I212116A	2.1/2"	42,419	-	-	64,842	64,842	-
I234116A	2.3/4"	47,690	-	-	-	-	-
I300116A	3"	53,751	-	-	84,389	84,389	-
I312116A	3.1/2"	70,640	-	-	112,675	112,675	-
I400116A	4"	88,898	-	-	142,164	142,164	-

- Items marked with * are stockable items. Remaining all items required Minimum order value of Rs. 15000/- Nett.
From Size 1/8" to 5/8" 50 Nos. each 3/4" to 1" 10 Nos. each 1.1/4" to 2.1/4" 5 Nos each

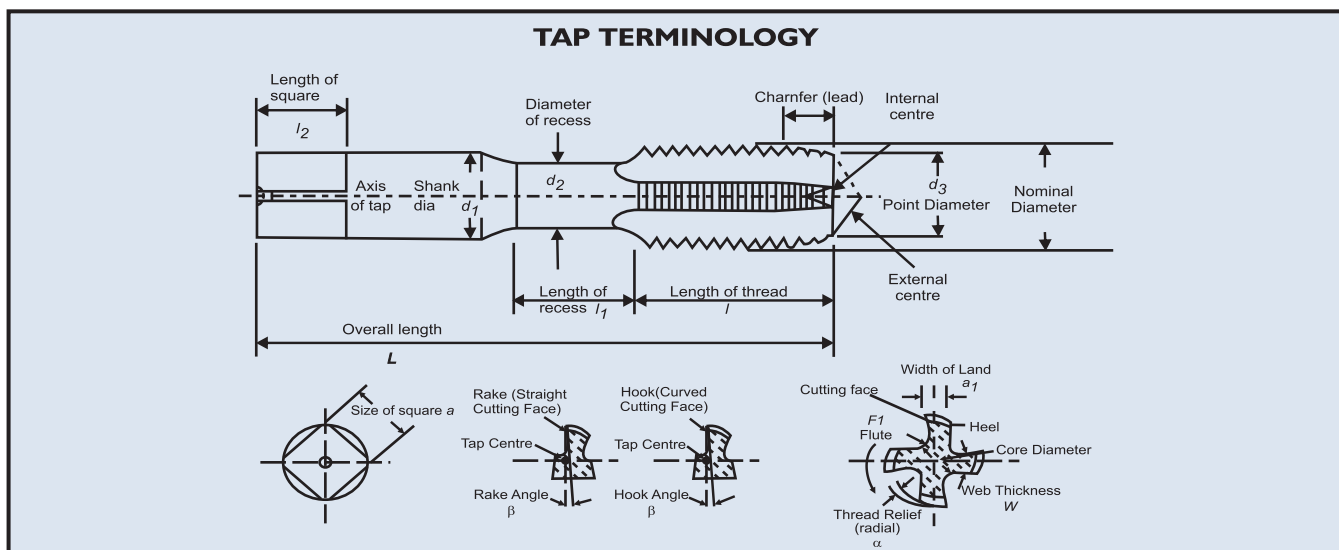
HSS NIB TAPS TO OUR STANDARD - (Code : XNC_)					Price Each Rs.		
	Size	Straight flute		Code	Size	Straight flute	
		M35	GV 3			M35	GV3
M030503D	M3 x 0.5	692	833	M081253D	M8 x1.25	900	1,095
M040703D	M4 x 0.7	706	855	M101503D	M10 x1.5	1,139	1,346
M050803D	M5 x 0.8	749	884	M121753D	M12 x1.75	1,338	1,534
M061003D	M6 x 1.0	832	884	-	-	-	-

- The above taps will be supplied with TiCN / TiAlN Coating
- The tap sizes upto M6" will be supplied with malecenters on both sides, above M6 taps will be supplied with female centers on both sides
- The tap sizes up to M6 will be supplied with 3 flutes, above M6 will be supplied with 5 flute. Any other style of Nib taps can be offered on specific request.
- **Items marked with * are stockable items. Remaining all items required Minimum order value of Rs. 15000/ Nett. or 5 Nos. for size whichever is higher.**
- The manufacturing range of Nib taps is M3 upwards , for the sizes above M12, quotation will be given on Specific request

UN TAPS (WTV_)				BS949 (Part1) -1992	
Part Code	Size	Price Each Rs.	Part Code	Size	Price Each Rs.
I118086A	1.1/8" X 8	4,801	I134086A	1.3/4" X 8	12,277
I114086A	1.1/4" X 8	5,787	I178086A	1.7/8" X 8	14,838
I138086A	1.3/8" X 8	7,466	I200086A	2" X 8	19,350
I112086A	1.1/2" X 8	8,973	I214086A	2.1/4" X 8	26,655
I158086A	1.5/8" X 8	10,492	I212086A	2.1/2" X 8	33,880

HSS GROUND THREAD HAND TAPS-COARSE PITCH - HELICOIL (WHR_)				IS 6175 : 1992	
Part Code	Size	Price Each Rs.	Part Code	Size	Price Each Rs.
M030503A	M3 X 0.50	382	M142003A	M14 X 2.00	2,047
M040704A	M4 X 0.70	405	M162003A	M16 X 2.00	2,047
M050805A	M5 X 0.80	487	M182503A	M18 X 2.50	2,615
M061006A	M6 X 1.00	487	M202503A	M20 X 2.50	2,801
M081253A	M8 X 1.25	591	M222503A	M22 X 2.50	3,119
M101503A	M10X 1.50	928	M243003A	M24 X 3.00	4,730
M121753A	M12X 1.75	1,354	M273003A	M27 X 3.00	5,290
		-	M303503A	M30 X 3.50	6,184

- Taps with different coatings can be provided with additional cost at actuals.
- Taps for various application like cast iron, Aluminium, Brass etc. can be supplied on demand.
- Taps of DIN 371, DIN 374, DIN 376, DIN 2184, JIS 4430 1998, ISO 529 1993 can be supplied on demand.



New Launch





**MIRANDA
EDGE**

**HIGH
PERFORMANCE
PLATINUM
CUT TAPS**



MIRANDA EDGE - PLATINUM CUT TAPS									
Size	SPPT			SPIREX			BOT		
	LIST PRICE- Rs. / Each								
	UNCOATED	TIN	TIALN	UNCOATED	TIN	TIALN	UNCOATED	TIN	TIALN
	MA1	MA2	MA3	MB1	MB2	MB3	MC1	MC2	MC3
M3 x 0.5	672	773	808	772	886	925	560	644	673
M4 x 0.7	672	773	808	772	886	925	560	644	673
M5 x 0.8	704	810	846	808	928	969	589	678	707
M6 x 1.0	704	810	846	808	928	969	589	678	707
M8 x 1.0	-	-	-	1,004	1,154	1,204	-	-	-
M8 x 1.25	791	908	949	905	1,039	1,085	661	758	792
M10 x 1.0	1,136	1,306	1,363	1,301	1,496	1,561	-	-	-
M10 x 1.25	1,136	1,306	1,363	1,301	1,496	1,561	948	1,091	1,139
M10 x 1.5	977	1,123	1,173	1,120	1,288	1,345	816	939	980
M12 x 1.0	1,758	2,020	2,110	2,012	2,315	2,414	-	-	-
M12 x 1.25	1,758	2,020	2,110	2,012	2,315	2,414	1,463	1,681	1,755
M12 x 1.50	1,758	2,020	2,110	2,012	2,315	2,414	1,463	1,681	1,755
M12 x 1.75	1,508	1,733	1,808	1,726	1,986	2,071	1,257	1,445	1,509


High Performance Platinum Cut Taps

Type	picture	Range	Series	Thread form	Blank Standard	Treatment	Material	Tapping type	Application
Straight Flute		M3-M12	MC 1	M	IS -6175/ISO 529	Bright	HSS-E	Blind/ Through	Medium to high tensile steel , Alloy steel , MS , general application
			MC2	M	IS -6175/ISO 529	TiN			
			MC3	M	IS -6175/ISO 529	TiAlN			
Straight Flute for cast Iron		M3-M12	CI MC 1	M	IS -6175/ISO 529	Bright	HSS-E	Blind/ Through	cast iron , SG iron , abrasive type steel
			CI MC 2	M	IS -6175/ISO 529	TiN			
			CI MC 3	M	IS -6175/ISO 529	TiAlN			
Spiral Point		M3-M12	MA 1	M	IS -6175/ISO 529	Bright	HSS-E	Through holes	Medium to high tensile steel , Alloy steel , MS , general application
			MA 2	M	IS -6175/ISO 529	TiN			
			MA3	M	IS -6175/ISO 529	TiAlN			
Spiral Flute		M3-M12	MB 1	M	IS -6175/ISO 529	Bright	HSS-E	Blind Holes	Medium to high tensile steel , Alloy steel , MS , general application
			MB2	M	IS -6175/ISO 529	TiN			
			MB3	M	IS -6175/ISO 529	TiAlN			


Recommended Parameter

Material	RC Value	HB value	Recommended Mtr / min	
			HSS-E	
			Uncoated	Coated
Structural steels, free-cutting steels Case hardened steels, heat-treatable steels	<20	<236	9-15	12-20
	<25	<256	9-13	11-18
	<30	<286	6-9	9-16
	<35	<326	5-8	6-10
	<38	<386	4-8	6-12
Stainless- and acid-resistant steels, sulphured austenitic martensitic		<186	8-13	12-16
	<25	<256	6-9	9-12
	<36	<286	6-9	7-12
Alloyed case hardened steels Alloyed heat-treatable steels Alloyed tool steels High speed tool steels	<35	<326	3-6	6-9
	<25	<256	3-6	9-12
	<36	<286	8-10	9-15
	<38	<386	3-5	4-9
Cast iron Spheroidal graphite iron Malleable cast iron		<186	15-20	18-25
	<25	<256	9-12	14-18
	<35	<326	5-10	6-12
Brass			9-13	-
			9-15	-

TUNGSTEN CARBIDE TIPPED TOOLS







ISO 1 (110) BAR TURNING TOOLS	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH)		LEFT HAND (LH)		PRICE RS. / PIECE
			ORDER CODE - MIR100				
			P30	K20	P30	K20	
	1010	90	1004RC	1001RC	1004LC	1001LC	371
	1212	100	1014RC	1011RC	1014LC	1011LC	404
	1616	110	1034RC	1031RC	1034LC	1031LC	545
	2020	125	1054RC	1051RC	1054LC	1051LC	869
	2525	140	1074RC	1071RC	1074LC	1071LC	1304
	3232	170	1094RC	1091RC	1094LC	1091LC	2127
	4040	200	1114RC	1111RC	1114LC	1111LC	4381
	5050	240	1134RC	1131RC	1134LC	1131LC	8962
	1610	110	1024RC	1021RC	1024LC	1021LC	435
	2012	125	1044RC	1041RC	1044LC	1041LC	600
	2516	140	1064RC	1061RC	1064LC	1061LC	805
	3220	170	1084RC	1081RC	1084LC	1081LC	1373
	4025	200	1104RC	1101RC	1104LC	1101LC	2208
	5032	240	1124RC	1121RC	1124LC	1121LC	5034
	6040	280	1144RC	1141RC	1144LC	1141LC	9157
ISO 2 (111) CRANKED TURNING & FACING TOOLS	1010	90	1204RC	1201RC	1204LC	1201LC	404
	1212	100	1214RC	1211RC	1214LC	1211LC	444
	1616	110	1234RC	1231RC	1234LC	1231LC	614
	2020	125	1254RC	1251RC	1254LC	1251LC	851
	2525	140	1274RC	1271RC	1274LC	1271LC	1279
	3232	170	1294RC	1291RC	1294LC	1291LC	2201
	4040	200	1314RC	1311RC	1314LC	1311LC	4286
	5050	240	1334RC	1331RC	1334LC	1331LC	9094
	1610	110	1224RC	1221RC	1224LC	1221LC	479
	2012	125	1244RC	1241RC	1244LC	1241LC	647
	2516	140	1264RC	1261RC	1264LC	1261LC	869
	3220	170	1284RC	1281RC	1284LC	1281LC	1382
	4025	200	1304RC	1301RC	1304LC	1301LC	2474
	5032	240	1324RC	1321RC	1324LC	1321LC	5135
	6040	280	1344RC	1341RC	1344LC	1341LC	9322
ISO 3 (123) CRANKED FINISHING TOOLS	1010	90	2204RC	2201RC	2204LC	2201LC	404
	1212	100	2214RC	2211RC	2214LC	2211LC	444
	1616	110	2234RC	2231RC	2234LC	2231LC	614
	2020	125	2254RC	2251RC	2254LC	2251LC	851
	2525	140	2274RC	2271RC	2274LC	2271LC	1279
	3232	170	2294RC	2291RC	2294LC	2291LC	2201
	4040	200	2314RC	2311RC	2314LC	2311LC	4286
	5050	240	2334RC	2331RC	2334LC	2331LC	9094
	1610	110	2224RC	2221RC	2224LC	2221LC	479
	2012	125	2244RC	2241RC	2244LC	2241LC	647

ISO 3 (123) CRANKED FINISHING TOOLS	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH)		LEFT HAND (LH)		PRICE RS./ PIECE
			ORDER CODE - MIR100				
			P30	K20	P30	K20	
	2516	140	2264RC	2261RC	2264LC	2261LC	870
	3220	170	2284RC	2281RC	2284LC	2281LC	1,382
	4025	200	2304RC	2301RC	2304LC	2301LC	2,474
	5032	240	2324RC	2321RC	2324LC	2321LC	5,135
	6040	280	2344RC	2341RC	2344LC	2341LC	9,322
ISO 4 (127) RECESSING TOOLS	NEUTRAL (NH)						
	1010	90	2604SC	2601SC			404
	1212	100	2614SC	2611SC			497
	1616	110	2634SC	2631SC			739
	2020	125	2654SC	2651SC			1,111
	2525	140	2674SC	2671SC			1,812
	3232	170	2694SC	2691SC			3,575
	4040	200	2714SC	2711SC			8,837
	5050	240	2076SC	2731SC			15,867
	1610	110	2624SC	2621SC			545
	2012	125	2644SC	2641SC			582
	2516	140	2664SC	2661SC			857
	3220	170	2684SC	2681SC			1,653
	4025	200	2704SC	2701SC			2,871
5032	240	2724SC	2721SC			5,459	
ISO 5 (126) CRANKED FACING TOOLS			RIGHT HAND (RH)		LEFT HAND (LH)		
	1010	90	2404RC	2401RC	2404LC	2401LC	404
	1212	100	2414RC	2411RC	2414LC	2411LC	444
	1616	110	2434RC	2430RC	2434LC	2431LC	614
	2020	125	2454RC	2451RC	2454LC	2451LC	851
	2525	140	2474RC	2471RC	2474LC	2471LC	1,279
	3232	170	2494RC	2491RC	2494LC	2491LC	2,202
	4040	200	2426RC	2511RC	2426LC	2511LC	4,286
	5050	240	2428RC	2531RC	2428LC	2531LC	9,094
	1610	110	2424RC	2421RC	2424LC	2421LC	479
	2012	125	2444RC	2441RC	2444LC	2441LC	648
	2516	140	2464RC	2461RC	2464LC	2461LC	870
	3220	170	2484RC	2481RC	2484LC	2481LC	1,382
	4025	200	2504RC	2501RC	2504LC	2501LC	2,477
5032	240	2524RC	2521RC	2524LC	2521LC	5,135	
ISO 6 (117) CRANKED KNIFE TOOLS	1010	90	2004RC	2001RC	2004LC	2001LC	404
	1212	100	2014RC	2011RC	2014LC	2011LC	444
	1616	110	2034RC	2031RC	2034LC	2031LC	614
	2020	125	2054RC	2051RC	2054LC	2051LC	851
	2525	140	2074RC	2071RC	2074LC	2071LC	1,279
	3232	170	2094RC	2091RC	2094LC	2091LC	2,202
4040	200	2114RC	2111RC	2114LC	2111LC	4,286	

ISO 6 (117) CRANKED KNIFE TOOLS	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH)		LEFT HAND (LH)		PRICE RS./ PIECE
			ORDER CODE - MIR100				
			P30	K20	P30	K20	
	5050	240	2134RC	2131RC	2134LC	2131LC	9,094
	1610	110	2024RC	2021RC	2024LC	2021LC	479
	2012	125	2044RC	2041RC	2044LC	2041LC	648
	2516	140	2064RC	2061RC	2064LC	2061LC	870
	3220	170	2084RC	2081RC	2084LC	2081LC	1,636
	4025	200	2104RC	2101RC	2104LC	2101LC	2,484
	5032	240	2124RC	2121RC	2132LC	2121LC	5,142
ISO 7 (150) PARTING OFF TOOLS	1010	90	5103RC	5201RC	5204LC	5201LC	483
	1212	100	5214RC	5211RC	5214LC	5211LC	549
	1616	110	5314RC	5231RC	5314LC	5231LC	610
	2020	125	5254RC	5180RC	5254LC	5180LC	673
	2525	140	5071RC	5061RC	5071LC	5061LC	902
	3232	170	5274RC	5271RC	5274LC	5271LC	1,432
	1006	90	5104RC	5101RC	5104LC	5101LC	404
	1208	100	5114RC	5111RC	5114LC	5111LC	479
	1610	110	5124RC	5121RC	5124LC	5121LC	508
	2012	125	5134RC	5131RC	5134LC	5131LC	563
	2516	140	5144RC	5141RC	5144LC	5141LC	746
	3220	170	5154RC	5151RC	5154LC	5151LC	1,198
	4025	200	5164RC	5161RC	5164LC	5161LC	1,980
5032	240	5166RC	5301RC	5304LC	5301LC	2,801	
ISO 8 (130) BORING TOOLS (SQUARE)	0808	125	2804RC	2801RC	2804LC	2801LC	744
	1010	150	2814RC	2811RC	2814LC	2811LC	797
	1212	180	2827RC	2823RC	2827LC	2823LC	870
	1616	210	2834RC	2831RC	2834LC	2831LC	1,045
	2020	250	2844RC	2841RC	2844LC	2841LC	1,279
	2525	300	2854RC	2851RC	2854LC	2851LC	2,389
	3232	355	2864RC	2861RC	2864LC	2861LC	3,106
	4040	400	2874RC	2871RC	2874LC	2871LC	4,511
5050	450	2878RC	2877RC	2878LC	2877LC	8,284	
ISO 8 (131) BORING TOOLS (ROUND)	Ø08	125	2904RC	2901RC	2904LC	2901LC	690
	Ø10	150	2914RC	2911RC	2914LC	2911LC	744
	Ø12	180	2924RC	2921RC	2924LC	2921LC	797
	Ø16	210	2934RC	2931RC	2934LC	2931LC	916
	Ø20	250	2944RC	2941RC	2944LC	2941LC	1,119
	Ø25	300	2954RC	2951RC	2954LC	2951LC	2,127
Ø32	355	2964RC	2961RC	2964LC	2961LC	2,708	

ISO 9 (135) BORING TOOLS (SQUARE)	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH)		LEFT HAND (LH)		PRICE RS./ PIECE
			ORDER CODE - MIR100				
			P30	K20	P30	K20	
	0808	125	3004RC	3001RC	3004LC	3001LC	744
	1010	150	3014RC	3011RC	3014LC	3011LC	797
	1212	180	3024RC	3021RC	3024LC	3021LC	870
	1616	210	3034RC	3031RC	3034LC	3031LC	1,045
	2020	250	3044RC	3041RC	3044LC	3041LC	1,279
	2525	300	3054RC	3051RC	3054LC	3051LC	2,389
	3232	355	3064RC	3061RC	3064LC	3061LC	3,106
	4040	400	3068RC	3062RC	3068LC	3062LC	4,511
ISO 9 (136) BORING TOOLS (ROUND)	Ø08	125	3104RC	3101RC	3104LC	3101LC	690
	Ø10	150	3114RC	3111RC	3114LC	3111LC	744
	Ø12	180	3124RC	3121RC	3124LC	3121LC	797
	Ø16	210	3134RC	3131RC	3134LC	3131LC	916
	Ø20	250	3144RC	3141RC	3144LC	3141LC	1,119
	Ø25	300	3154RC	3151RC	3154LC	3151LC	2,127
	Ø32	355	3164RC	3161RC	3164LC	3161LC	2,708
113 - STRAIGHT ROUND NOSE TURNING TOOLS	NEUTRAL (NH)						
	1010	90	1404SC	1401SC			404
	1212	100	1414SC	1411SC			444
	1616	110	1434SC	1431SC			624
	2020	125	1454SC	1451SC			968
	2525	140	1474SC	1471SC			1,396
	3232	170	1494SC	1491SC			2,595
	4040	200	1614SC	1506SC			4,812
	1610	110	1424SC	1421SC			483
	2012	125	1444SC	1441SC			591
	2516	140	1464SC	1461SC			809
	3220	170	1484SC	1481SC			1,124
	4025	200	1504SC	1501SC			2,257
	5032	240	0057AC	0057SC			4,235
115 CRANKED ROUND NOSE TURNING TOOLS.			RIGHT HAND (RH)		LEFT HAND (LH)		
	1010	90	1604RC	1601RC	1604LC	1601LC	444
	1212	100	1614RC	1611RC	1614LC	1611LC	473
	1616	110	1634RC	1631RC	1634LC	1631LC	648
	2020	125	1654RC	1651RC	1654LC	1651LC	968
	2525	140	1674RC	1671RC	1674LC	1671LC	1,396
	3232	170	1694RC	1691RC	1694LC	1691LC	2,708
	4040	200	1714RC	1711RC	1714LC	1711LC	5,018
	1610	110	1624RC	1621RC	1624LC	1621LC	532
	2012	125	1644RC	1641RC	1644LC	1641LC	624
	2516	140	1664RC	1661RC	1664LC	1661LC	851
	3220	170	1684RC	1681RC	1684LC	1681LC	1,183
	4025	200	1704RC	1701RC	1704LC	1701LC	2,358

116 - BAR TURNING TOOLS	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH)		LEFT HAND (LH)		PRICE RS./PIECE
			ORDER CODE - MIR100				
			P30	K20	P30	K20	
	1010	90	1804RC	1801RC	1804LC	1801LC	365
	1212	100	1814RC	1811RC	1814LC	1811LC	404
	1616	110	1834RC	1831RC	1834LC	1831LC	539
	2020	125	1854RC	1851RC	1854LC	1851LC	797
	2525	140	1874RC	1871RC	1874LC	1871LC	1,234
	3232	170	1894RC	1891RC	1894LC	1891LC	2,132
	4040	200	1914RC	1911RC	1914LC	1911LC	4,212
	5050	240	1934RC	1931RC	1934LC	1931LC	8,956
	1610	110	1824RC	1821RC	1824LC	1821LC	433
	2012	125	1844RC	1841RC	1844LC	1841LC	701
	2516	140	1864RC	1861RC	1864LC	1861LC	1,000
	3220	170	1884RC	1881RC	1884LC	1881LC	1,372
	4025	200	1904RC	1901RC	1904LC	1901LC	2,202
122 - POINTED TURNING TOOLS	NEUTRAL (NH)						
	1010	90	0805SC	0801SC			404
	1212	100	0815SC	0811SC			494
	1616	110	0835SC	0831SC			545
	2020	125	0855SC	0851SC			746
	2525	140	0875SC	0871SC			1,062
	3232	170	0895SC	0891SC			2,634
	4040	200	0902SC	0903SC			4,834
	5050	240	0925SC	0926SC			5,271
	1610	110	0825SC	0821SC			539
	2012	125	0845SC	0841SC			571
	2516	140	0865SC	0861SC			746
	3220	170	0885SC	0881SC			1,111
	4025	200	0905SC	0901SC			1,857
	5032	240	0906SC	0907SC			3,896
140 (60°) BORING TOOLS (SQUARE)			RIGHT HAND (RH)		LEFT HAND (LH)		
	0808	24	3604RC	3601RC	3604LC	3601LC	465
	1010 & 3/8"	50	3614RC	3611RC	3614LC	3611LC	465
	1212 & 1/2"	60	3624RC	3621RC	3624LC	3621LC	533
	1616 & 5/8"	90	3634RC	3631RC	3634LC	3631LC	746
	2020 & 3/4"	120	3644RC	3641RC	3644LC	3641LC	1,185
	2525 & 1"	175	3654RC	3651RC	3654LC	3651LC	1,562
140 (60°) BORING TOOLS (ROUND)							
	Ø8	24	3504RC	3501RC	3504LC	3501LC	404
	Ø10 & 3/8"	50	3514RC	3511RC	3514LC	3511LC	404
	Ø12 & 1/2"	60	3524RC	3521RC	3524LC	3521LC	473
	Ø16 & 5/8"	90	3534RC	3531RC	3534LC	3531LC	614
	Ø20 & 3/4"	120	3544RC	3541RC	3544LC	3541LC	1,100
	Ø25 & 1"	175	3554RC	3551RC	3554LC	3551LC	1,427

141 (90°) BORING TOOLS (SQUARE) 	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH)		LEFT HAND (LH)		PRICE RS./ PIECE
			ORDER CODE - MIR100				
			P30	K20	P30	K20	
	0808	24	4104RC	4101RC	4104LC	4101LC	465
	1010 & 3/8"	50	4114RC	4111RC	4114LC	4111LC	465
	1212 & 1/2"	60	4124RC	4121RC	4124LC	4121LC	533
	1616 & 5/8"	90	4134RC	4131RC	4134LC	4131LC	746
	2020 & 3/4"	120	4144RC	4141RC	4144LC	4141LC	1185
	2525 & 1"	175	4154RC	4151RC	4154LC	4151LC	1562
141 (90°) BORING TOOLS (ROUND) 	Ø08	24	4004RC	4001RC	4004LC	4001LC	404
	Ø10 & 3/8"	50	4014RC	4011RC	4014LC	4011LC	404
	Ø12 & 1/2"	60	4024RC	4021RC	4024LC	4021LC	473
	Ø16 & 5/8"	90	4034RC	4031RC	4034LC	4031LC	614
	Ø20 & 3/4"	120	4044RC	4041RC	4044LC	4041LC	1100
	Ø25 & 1"	175	4054RC	4051RC	4054LC	4051LC	1427
142 (45°) BORING TOOLS (SQUARE) 	0808	24	4604RC	4601RC	4604LC	4601LC	465
	1010 & 3/8"	50	4614RC	4611RC	4614LC	4611LC	465
	1212 & 1/2"	60	4624RC	4621RC	4624LC	4621LC	533
	1616 & 5/8"	90	4634RC	4631RC	4634LC	4631LC	746
	2020 & 3/4"	120	4644RC	4641RC	4644LC	4641LC	1185
	2525 & 1"	175	4654RC	4651RC	4654LC	4651LC	1562
142 (45°) BORING TOOLS (ROUND) 	Ø08	24	4504RC	4501RC	4504LC	4501LC	404
	Ø10 & 3/8"	50	4514RC	4511RC	4514LC	4511LC	404
	Ø12 & 1/2"	60	4524RC	4521RC	4524LC	4521LC	473
	Ø16 & 5/8"	90	4534RC	4531RC	4534LC	4531LC	614
	Ø20 & 3/4"	120	4544RC	4541RC	4544LC	4541LC	1100
	Ø25 & 1"	175	4554RC	4551RC	4554LC	4551LC	1427
156 - CRANKED INTERNAL RECESSING TOOLS 	1010	90	5404RC	5401RC	5404LC	5401LC	763
	1212	100	5414RC	5411RC	5414LC	5411LC	870
	1616	110	5424RC	5421RC	5424LC	5421LC	974
	2020	125	5434RC	5431RC	5434LC	5431LC	1259
	2525	140	5444RC	5441RC	5444LC	5441LC	1724
	3232	170	5454RC	5451RC	5454LC	5451LC	2453
	4040	315	5464RC	5461RC	5464LC	5461LC	4069
163 - STRAIGHT TURNING & GROOVING TOOLS 	NEUTRAL (NH)						
	1010	90	5704SC	5701SC			494
	1212	100	5714SC	5711SC			563
	1616	110	5734SC	5731SC			851
	2020	125	5754SC	5751SC			1240
	2525	140	5774SC	5771SC			2071
	3232	170	5794SC	5791SC			4512
	4040	200	5798SC	5762SC			8662
	1610	110	5724SC	5721SC			483
	2012	125	5744SC	5741SC			616
	2516	140	5764SC	5761SC			933
	3220	170	5784SC	5781SC			1529

165 - STRAIGHT THREADING TOOLS (60°)	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH)		LEFT HAND (LH)		PRICE RS./ PIECE
			ORDER CODE - MIR100				
			P30	K20	P30	K20	
	1010	90	6002RC	6001RC	6002LC	6001LC	533
	1212	100	6012RC	6011RC	6012LC	6011LC	564
	1616	110	6044RC	6031RC	6044LC	6031LC	735
	2020	125	6054RC	6051RC	6054LC	6051LC	1,000
	2525	140	6074RC	6071RC	6074LC	6071LC	1,487
	3232	170	6094RC	6091RC	6094LC	6091LC	1,968
166 - INTERNAL THREADING TOOLS (60°)	1010	90	6204RC	6201RC	6204LC	6201LC	881
	1212	100	6214RC	6211RC	6214LC	6211LC	996
	1616	110	6224RC	6221RC	6224LC	6221LC	1,081
	2020	125	6234RC	6231RC	6234LC	6231LC	1,326
	2525	140	6256RC	6241RC	6256LC	6241LC	1,736
	3232	170	6254RC	6251RC	6254LC	6251LC	2,619
IND-2-EXTERNAL THREADING TOOLS	1010	90	0905RC	0901RC	0905LC	0901LC	626
	1212	100	0915RC	0911RC	0915LC	0911LC	739
	1616	110	0935RC	0931RC	0935LC	0931LC	786
	2020	125	0955RC	9101RC	0955LC	9101LC	872
	2525	140	0975RC	0971RC	0975LC	0971LC	1,458
THREADING TOOLS WITH "V" PROFILE	NEUTRAL (NH)						
	166 - 11	140	6264RC	6261RC			805
	166 - 12	160	6274RC	6271RC			983
	166 - 13	180	6284RC	0114RC			1,372
	166 - 14	200	6294RC	6292RC			1,914

Indian Standard Application of Carbides for Machining, Ranges of application and Colour Code Selection Guideline for Tip Grade

Identification Colour	Designation	Material to be Machined
	P20	Steel, steel casting, Malleable cast iron forming long chips Machining Conditions Turning & Milling-Medium cutting speed and medium chip section, Planing with small chip section
	P30	Steel, steel casting, Malleable cast iron forming long chips Machining Conditions Turning, Milling & Planning-Medium or low cutting speed, medium or large chip section and machining under unfavourable conditions such as heat erogenous materials, changing hardness or chip section, intermittent turning or subject to vibrations.
	P40	Steel, steel casting with sand inclusions or shrinkage cavities Machining Conditions Turning, Planning & Shapping-Low cutting speed, large chip section with possibility of using large rake angle for machining under unfavourable conditions, such as heat erogenous materials, changing hardness or chip sections, intermillent turning or subject to vibrations; and work on automatic machines.
	K10	Grey cast iron of hardness more than 220 HB, Malleable cast iron forming short chips, Tempered steel, Aluminium alloys containing silicon, copper alloys, plastics, glass, hard rubber, hard carboard, porcelain, stone. Machining Conditions Turning, Milling, Boring, Scraping
	K20	Grey cast iron of hardness up to 220 HB, Non-ferrous metals, such as Copper, Brass, . Aluminium, Laminated wood of abrasive type Machining Conditions Turning, Milling, planning, requiring high toughness.

TUNGSTEN CARBIDE ROTARY BURRS



PRODUCT RANGE

Types : Cylindrical & with Radius Flame, Rim & Inverted Cone
Tree shape - Radius / Pointed end
Cone shape - Radius / Pointed end

Range : Diameter 3.0 mm to 25.0 mm, Shank 3.0 mm, 6.0 mm & 8.0 mm
Single cut, Double cut, Diamond cut & Aluma cut

APPLICATIONS

- Cast Iron
- Mild Steel
- Stainless Steel
- Forged Steel
- Titanium
- Aluminium

INDUSTRIES

- Foundry, Casting & Fabrication
- Marine & Shipbuilding
- Automobile, Heavy Engineering
- Tubes & Pipes
- Aerospace & Defense
- Gear Manufacturing

TUNGSTEN CARBIDE ROTARY BURRS

SHAPE	MIRANDA CODE	DESCRIPTION	PRICE RS./PIECE			
			ORDER CODE	STANDARD PRICE	ORDER CODE	TIN COATED PRICE
		HEAD DIA X HEAD LENGTH X OAL LENGTH X SHANK DIA	MIETCRBFU		MIRTCRBFU	
 CONICAL	MAM1	3MM X 11MM X 38MM X 3SHK	1011AS	498	1011AS	549
	MAM2	6MM X 11MM X 38MM X 3SHK	1012BS	653	1012BS	720
	AM1	6MM X 19MM X 60MM X 6SHK	1010AS	774	1010AS	851
	AM2	10MM X 20MM X 70MM X 6SHK	1020BS	774	1020BS	851
	AM3	12MM X 25MM X 75MM X 6SHK	1030CS	1063	1030CS	1169
	AM4	10MM X 12MM X 60MM X 6SHK	1040DS	806	1040DS	885
	AM5	16MM X 13MM X 63MM X 6SHK	1050ES	1161	1050ES	1307
	AM6	16MM X 16MM X 66MM X 6SHK	1060FS	1161	1060FS	1307
 CYLINDRICAL RADIUS END	MBM1	3MM X 16MM X 38MM X 3SHK	2011AS	498	2011AS	549
	MBM2	6MM X 13MM X 38MM X 3SHK	2012BS	653	2012BS	720
	BM1	6MM X 20MM X 50MM X 6SHK	2010AS	783	2010AS	859
	BM2	8MM X 20MM X 70MM X 6SHK	2020BS	756	2020BS	833
	BM3	10MM X 20MM X 70MM X 6SHK	2030CS	945	2030CS	1039
	BM4	12MM X 20MM X 70MM X 6SHK	2040DS	1219	2040DS	1366
	BM5	16MM X 25MM X 75MM X 6SHK	2050ES	1864	2050ES	2087
	BM6	12MM X 25MM X 75MM X 6SHK	2060FS	1692	2060FS	1898
 CYLINDRICAL	MCM1	3MM X 16MM X 38MM X 3SHK	3011AS	498	3011AS	549
	MCM2	6MM X 6MM X 38MM X 3SHK	3012BS	560	3012BS	618
	MCM3	6MM X 13MM X 38MM X 3SHK	3013CS	653	3013CS	720
	CM1	4MM X 15MM X 50MM X 6SHK	3010AS	653	3010AS	720
	CM2	6MM X 20MM X 60MM X 6SHK	3020BS	749	3020BS	825
	CM3	8MM X 20MM X 70MM X 6SHK	3030CS	851	3030CS	936
	CM4	10MM X 20MM X 70MM X 6SHK	3040DS	936	3040DS	1030
	CM5	12MM X 20MM X 70MM X 6SHK	3050ES	1177	3050ES	1315
	CM6	16MM X 25MM X 75MM X 6SHK	3060FS	1887	3060FS	2111
	CM7	12MM X 16MM X 65MM X 6SHK	3070GS	1149	3070GS	1287
CM8	12MM X 25MM X 75MM X 6SHK	3080HS	1864	3080HS	2087	
 FLAME	FM1	6MM X 15MM X 50MM X 6SHK	4010AS	749	4010AS	825
	FM2	8MM X 20MM X 70MM X 6SHK	4020BS	774	4020BS	851
	FM3	10MM X 25MM X 65MM X 6SHK	4030CS	1528	4030CS	1709
	FM4	12MM X 32MM X 82MM X 6SHK	4040DS	1835	4040DS	2071
 CONE RADIUS	MKM1	3MM X 8MM X 38MM X 3SHK	5011AS	498	5011AS	549
	MKM2	6MM X 12MM X 38MM X 3SHK	5012BS	653	5012BS	720
	KM1	10MM X 20MM X 65MM X 6SHK	5010AS	732	5010AS	806
	KM2	12MM X 20MM X 70MM X 6SHK	5020BS	1219	5020BS	1366
	KM3	16MM X 33MM X 75MM X 6SHK	5030CS	1683	5030CS	1880

SHAPE	MIRANDA CODE	DESCRIPTION	PRICE RS./ PIECE			
			ORDER CODE	STANDARD PRICE	ORDER CODE	TIN COATED PRICE
		HEAD DIA X HEAD LENGTH	MIETCRBFU		MIRTCRBFU	
X OAL LENGTH X SHANK DIA						
 OVAL	MOM1	3MM X 8MM X 38MM X 3SHK	MOM1S0814	498	MOM1S0814	549
	MOM2	6MM X 10MM X 38MM X 3SHK	MOM2S0610	653	MOM2S0610	720
	OM1	8MM X 14MM X 60MM X 6SHK	OM10S0814	833	OM10S0814	920
	OM2	12MM X 20MM X 70MM X 6SHK	OM20S1220	1219	OM20S1220	1366
	OM3	16MM X 25MM X 75MM X 6SHK	OM30S1625	1880	OM30S1625	2104
	OM4	6MM X 10MM X 60MM X 6SHK	OM40S0610	833	OM40S0610	920
 RIM	RM1	10MM X 2MM X 50MM X 6SHK	RM10S1002	732	RM10S1002	806
	RM2	20MM X 6MM X 60MM X 6SHK	RM20S2006	1373	RM20S2006	1512
	RM3	12MM X 10MM X 60MM X 6SHK	RM30S1210	1219	RM30S1210	1341
 BALL	MSM1	4MM X 3MM X 38MM X 3SHK	MSM1S0403	578	MSM1S0403	635
	MSM2	5MM X 4MM X 38MM X 3SHK	MSM2S0504	603	MSM2S0504	663
	SM1	6MM X 5MM X 50MM X 6SHK	SM10S0605	720	SM10S0605	790
	SM2	8MM X 7MM X 50MM X 6SHK	SM20S0807	757	SM20S0807	833
	SM3	10MM X 9MM X 60MM X 6SHK	SM30S1009	757	SM30S1009	833
	SM4	12MM X 11MM X 60MM X 6SHK	SM40S1211	951	SM40S1211	1045
	SM5	16MM X 14MM X 65MM X 6SHK	SM50S1614	1287	SM50S1614	1444
 TREE POINTED END	MTM1	3MM X 13MM X 38MM X 3SHK	MTM1S0313	498	MTM1S0313	549
	MTM2	3MM X 16MM X 38MM X 3SHK	MTM2S0316	498	MTM2S0316	549
	MTM3	6MM X 13MM X 38MM X 3SHK	MTM3S0613	653	MTM3S0613	720
	TM1	6MM X 20MM X 70MM X 6SHK	TM10S0620	790	TM10S0620	867
	TM2	10MM X 20MM X 70MM X 6SHK	TM20S1020	945	TM20S1020	1039
	TM3	12MM X 25MM X 75MM X 6SHK	TM30S1225	1132	TM30S1225	1247
	TM4	16MM X 30MM X 80MM X 6SHK	TM40S1630	1683	TM40S1630	1880
 TREE RADIUS END	TBM1	6MM X 20MM X 70MM X 6SHK	TBM1S0620	790	TBM1S0620	867
	TBM2	10MM X 20MM X 70MM X 6SHK	TBM2S1020	945	TBM2S1020	1039
	TBM3	12MM X 25MM X 75MM X 6SHK	TBM3S1225	1194	TBM3S1225	1341
 INVERTED CONE	MIM1	3MM X 8MM X 38MM X 3SHK	MIM1S0308	498	MIM1S0308	549
	MIM2	6MM X 8MM X 38MM X 3SHK	MIM2S0608	560	MIM2S0608	618

SOLID CARBIDE TOOLS

MIRANDA
Maxx



**SOLID CARBIDE TOOLS
END MILLS**



SC4M 4 FLUTE - TiAIN coated				
Dia	SH.DIA	FL	OAL	PRICE RS./PIECE
1.0	3.0	3	38	1,049
1.5	3.0	6	38	1,049
2.0	3.0	9	38	1,049
2.5	3.0	9	38	1,049
3.0	3.0	12	38	988
3.5	4.0	14	50	1,298
4.0	4.0	14	50	1,298
4.5	5.0	16	50	1,630
5.0	5.0	20	50	1,630
5.5	6.0	20	60	1,702
6.0	6.0	20	60	1,702
8.0	8.0	20	60	1,884
10.0	10.0	25	75	3,584
12.0	12.0	25	75	4,157
14.0	14.0	25	75	7,300
16.0	16.0	32	89	7,889
20.0	20.0	38	100	16,765

SCBALL NOSE-EM 4 FLUTE - TiAIN coated				
Dia	SH.DIA	FL	OAL	PRICE RS./PIECE
1.0	3.0	3	38	1,325
1.5	3.0	5	38	1,325
2.0	3.0	7	38	1,325
2.5	3.0	7	38	1,325
3.0	3.0	9	38	1,194
4.0	4.0	14	50	1,557
5.0	5.0	16	50	1,961
6.0	6.0	20	60	2,045
8.0	8.0	20	60	2,305
10.0	10.0	25	75	4,296
12.0	12.0	25	75	4,995
16.0	16.0	32	89	9,484
20.0	20.0	38	102	20,120



LONG LENGTH 4 FLUTE				PRICE RS./PIECE
Dia	SH.DIA	FL	OAL	
3	3	20	60	1,886
4	4	20	60	2,128
5	5	25	75	2,371
6	6	30	75	2,474
8	8	40	100	2,754
10	10	40	100	4,342
10	10	75	150	9,913
12	12	50	100	6,224
12	12	75	150	12,160
16	16	75	150	18,243
20	20	75	150	30,343

SCNB - LONG LENGTH 4 FLUTE				PRICE RS./PIECE
Dia	SH.DIA	FL	OAL	
3	3	20	60	2,261
4	4	20	60	2,556
5	5	25	75	2,843
6	6	30	75	2,972
8	8	40	100	3,270
10	10	40	100	5,212
10	10	75	150	11,898
12	12	50	100	7,459
12	12	75	150	14,594
16	16	75	150	21,894
20	20	75	150	36,413



SOLID CARBIDE TOOLS DRILL



Solid Carbide Jobber Drill -TiAlN Coated				
Dia	SH.DIA	FL	OAL	PRICE RS./ PIECE
1.0	1.0	12	32	903
1.5	1.5	18	40	969
2.0	2.0	24	49	1,108
2.5	2.5	30	57	1,108
3.0	3.0	33	61	1,240
3.5	3.5	39	70	1,350
4.0	4.0	43	75	1,661
4.5	4.5	47	80	1,779
5.0	5.0	52	86	2,037
5.5	5.5	57	93	2,358
6.0	6.0	57	93	2,453
6.5	6.5	63	101	2,762
7.0	7.0	69	109	3,024
7.5	7.5	69	109	3,301
8.0	8.0	75	117	3,722
8.5	8.5	75	117	4,078
9.0	9.0	81	125	4,627
9.5	9.5	81	125	5,282
10.0	10.0	87	133	6,063
10.5	10.5	87	133	6,776
11.0	11.0	94	142	8,064
12.0	12.0	101	151	9,219
13.0	13.0	101	151	11,520
14.0	14.0	108	160	14,382
16.0	16.0	120	178	21,353

Solid Carbide Stub Drill-TiAlN Coated				
Dia	SH.DIA	FL	OAL	PRICE RS./ PIECE
1.0	1.0	6	26	829
1.5	1.5	9	32	890
2.0	2.0	12	38	1,018
2.5	2.5	14	43	1,018
3.0	3.0	16	46	1,139
3.5	3.5	20	52	1,175
4.0	4.0	22	55	1,446
4.5	4.5	24	58	1,547
5.0	5.0	26	62	1,773
5.5	5.5	28	66	2,052
6.0	6.0	28	66	2,135
6.5	6.5	31	70	2,293
7.0	7.0	34	74	2,510
7.5	7.5	34	74	2,740
8.0	8.0	37	79	3,089
8.5	8.5	37	79	3,385
9.0	9.0	40	84	3,625
9.5	9.5	40	84	4,140
10.0	10.0	43	89	4,750
10.5	10.5	43	89	5,309
11.0	11.0	47	95	6,972
12.0	12.0	51	102	6,972
13.0	13.0	51	103	10,431
14.0	14.0	54	107	10,431
16.0	16.0	58	115	15,495

- END MILL FOR 60HRC ON REQUEST
- END MILL WITH CORNER RADIUS & SPECIAL ON REQUEST.
- PRICES ARE SUBJECT TO REVISION WITHOUT ANY NOTICE.

SUGGESTED SPEED AND FEED DATA FOR SOLID CARBIDE ENDMILLS

Application : Slotting / Key way machining

Material HRC Diameter	Carbon steel , Alloy Steel < HRC 28		Carbon steel , Alloy Steel HRC 28 - HRC 45		Stainless Steel and Super alloys		Cast Iron	
	RPM	feed/tooth	RPM	feed/tooth	RPM	feed/tooth	RPM	feed/tooth
2	6369	0.03	6369	0.024	6369	0.02	6369	0.044
3	4777	0.045	4777	0.036	4777	0.03	4777	0.066
4	3981	0.06	3981	0.048	3981	0.04	3981	0.088
5	3185	0.075	3185	0.06	3185	0.05	3185	0.11
6	2654	0.09	2654	0.072	2654	0.06	2654	0.132
8	1990	0.12	1990	0.096	1990	0.08	1990	0.176
10	1911	0.15	1911	0.12	1911	0.1	1911	0.22
12	1592	0.18	1592	0.144	1592	0.12	1592	0.264
14	1365	0.21	1365	0.168	1365	0.14	1365	0.308
16	1393	0.24	1393	0.192	1393	0.16	1393	0.352
18	1238	0.27	1238	0.216	1238	0.18	1238	0.396
20	1115	0.3	1115	0.24	1115	0.2	1115	0.44

- Reduce feed rate by around 30% in case of long types
- Increase speed and feed rate by around 25% in case of coated endmills

Application : End milling

Material HRC Diameter	Carbon steel , Alloy Steel < HRC 28		Carbon steel , Alloy Steel HRC 28 - HRC 45		Stainless Steel and Super alloys		Grey Cast Iron	
	RPM	feed/tooth	RPM	feed/tooth	RPM	feed/tooth	RPM	feed/tooth
2	6369	0.04	6369	0.03	6369	0.024	6369	0.06
3	4777	0.06	4777	0.045	4777	0.036	4777	0.09
4	3981	0.08	3981	0.06	3981	0.048	3981	0.12
5	3185	0.1	3185	0.075	3185	0.06	3185	0.15
6	2654	0.12	2654	0.09	2654	0.072	2654	0.18
8	1990	0.16	1990	0.12	1990	0.096	1990	0.24
10	1911	0.2	1911	0.15	1911	0.12	1911	0.3
12	1592	0.24	1592	0.18	1592	0.144	1592	0.36
14	1365	0.28	1365	0.21	1365	0.168	1365	0.42
16	1393	0.32	1393	0.24	1393	0.192	1393	0.48
18	1238	0.36	1238	0.27	1238	0.216	1238	0.54
20	1115	0.4	1115	0.3	1115	0.24	1115	0.6

SUGGESTED SPEED AND FEED DATA FOR SOLID CARBIDE DRILLS

Application : Drilling

Material HRC Diameter	Carbon steel , Alloy Steel < HRC 28		Carbon steel , Alloy Steel HRC 28 - HRC 45		Stainless Steel and Super alloys		Cast Iron	
	RPM	mm/rev	RPM	mm/rev	RPM	mm/rev	RPM	mm/rev
2	5100	0.04	5100	0.03	4900	0.02	5100	0.06
3	4246	0.045	4246	0.036	4246	0.03	4246	0.066
4	3583	0.06	3583	0.048	3583	0.04	3583	0.088
5	2866	0.075	2866	0.06	2866	0.05	2866	0.11
6	2389	0.09	2389	0.072	2389	0.06	2389	0.132
8	1990	0.12	1990	0.096	1990	0.08	1990	0.176
10	1592	0.15	1592	0.12	1592	0.10	1592	0.22
12	1327	0.18	1327	0.144	1327	0.12	1327	0.264
14	1251	0.21	1251	0.168	1251	0.14	1251	0.308
16	1194	0.24	1194	0.192	1194	0.16	1194	0.352
18	1062	0.27	1062	0.216	1062	0.18	1062	0.396
20	1115	0.3	1115	0.24	1115	0.2	1115	0.44

- Increase speed and feed rate by around 25% in case of coated endmills
- Reduce feed rate by around 30% in case of long types
- Increase speed and feed rate by around 25% in case of coated Drills

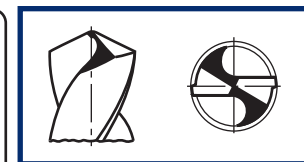
Technical Formulae

Cutting speed. = $\pi \times \text{Dia of Tool} \times \text{RPM} / 1000$

Feed in mm per revolution. = feed in mm per tooth X no. of flutes

Feed in mm per min. = RPM X feed in mm per revolution.

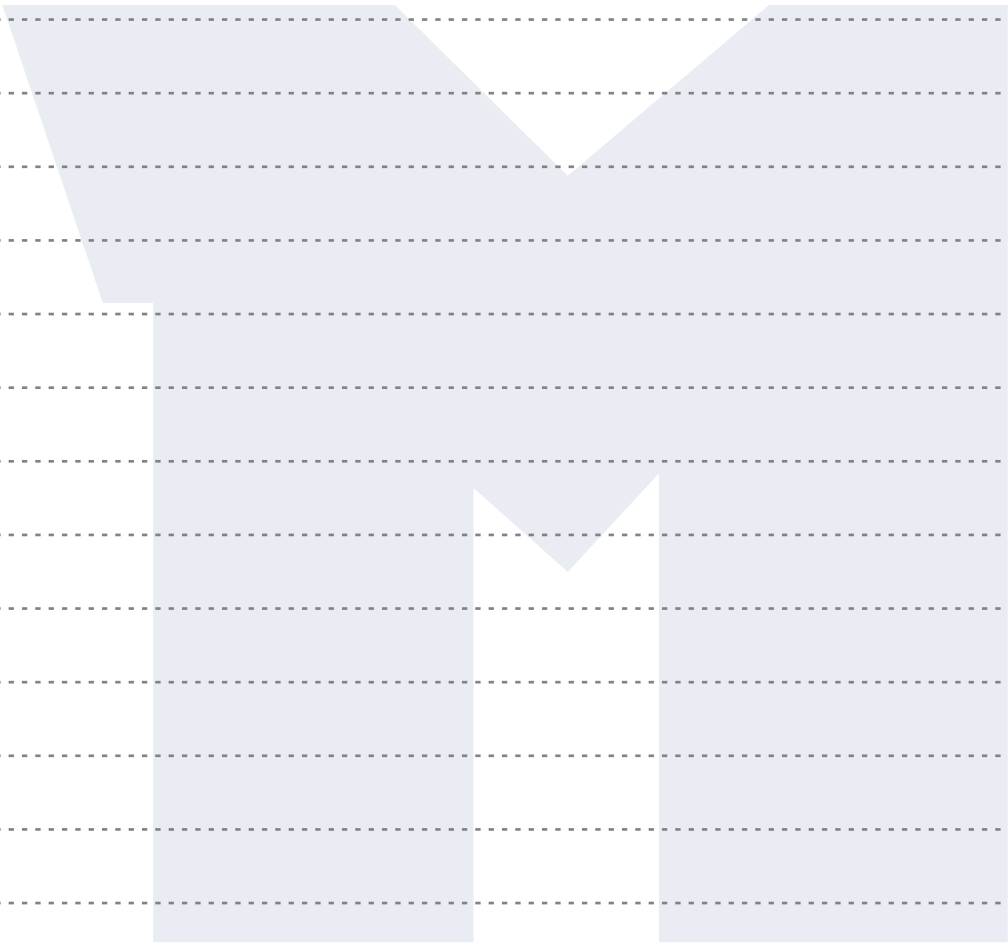
Cutting time. = Cutting length / feed in mm per min



Split Point Geometry

Notes

Dotted lines for writing notes.



Notes

A series of horizontal dotted lines for taking notes, with a large, faint watermark of the 'MIRANDA' logo centered across the page.

Notes

A series of horizontal dotted lines for taking notes, with a large, faint watermark logo in the center.

Notes

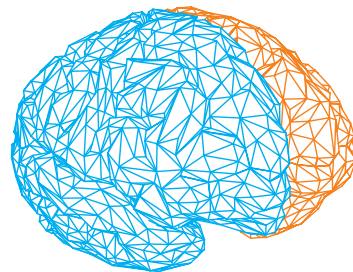
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WE MAKE THE SHIFT

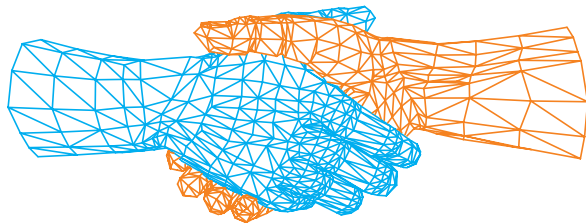
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THROUGH ENGINEERING



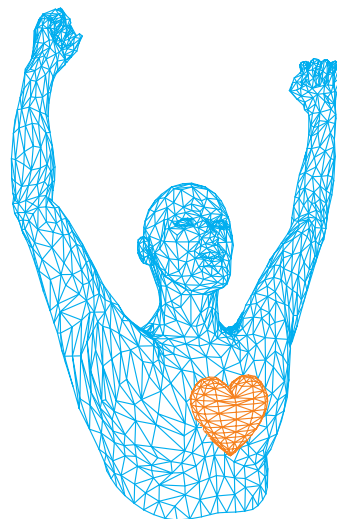
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